



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07H 21/04, C12Q 1/68, C12N 15/63, 15/85, C12P 21/02	A1	(11) International Publication Number: WO 98/14466 (43) International Publication Date: 9 April 1998 (09.04.98)
(21) International Application Number: PCT/US97/17658 (22) International Filing Date: 30 September 1997 (30.09.97) (30) Priority Data: 08/724,394 1 October 1996 (01.10.96) US 08/852,495 7 May 1997 (07.05.97) US (71) Applicant: PROGENTIOR, INC. [US/US]; 4040 Campbell Avenue, Menlo Park, CA 94025 (US). (72) Inventors: FEDER, John, N.; 1450 Chestnut Street, San Carlos, CA 94070 (US). KRONMAL, Gregory, S.; 277 Gateway Drive #131, Pacifica, CA 94044 (US). LAUER, Peter, M.; 128 Randall Street, San Francisco, CA 94131 (US). RUDDY, David, A.; 885 Greenwich Street, San Francisco, CA 94133 (US). THOMAS, Winston, J.; 40 White Plains Court, San Mateo, CA 94402 (US). TSUCHIHASHI, Zenta; 9 Light Way, Menlo Park, CA 94025 (US). WOLFF, Roger, K.; 41 Eugene Street, Mill Valley, CA 94941 (US). (74) Agents: FITTS, Renee, A. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: POLYMORPHISMS AND NEW GENES IN THE REGION OF THE HUMAN HEMOCHROMATOSIS GENE		
(57) Abstract <p>Polymorphic sites in the region surrounding the HFE gene are provided. These polymorphisms are useful as surrogate markers in diagnostic assays for hemochromatosis. Additionally, a fine structure map of the 1 megabase region surrounding the HFE gene is provided, along with 235 kb of DNA sequence and 8 loci corresponding to candidate genes within the 1 megabase region, and in the purification of related proteins.</p>		

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Polymorphisms and New Genes in the Region of the Human Hemochromatosis Gene

BACKGROUND OF THE INVENTION

Hereditary hemochromatosis (HH) is an inherited disorder of iron metabolism wherein the body accumulates excess iron. In symptomatic individuals, this excess iron leads to deleterious effects by being deposited in a variety of organs leading to their failure, and resulting in cirrhosis, diabetes, sterility, and other serious illnesses. The gene which is defective in this disease was disclosed in copending U.S.S.N. 08/652,265.

Fine structure mapping of the region to which the gene responsible for HH, HFE (denoted HH or HFE in some publications), was mapped makes possible the identification of candidate sequences comprising the HFE gene, along with structural elements for regulation and expression and neighboring genes.

A variety of techniques is available for fine structure mapping, including direct cDNA selection, exon-trapping, and genomic sample sequencing. The direct selection approach (Lovett *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:9628-9623 (1991)) involves the hybridization of cDNA fragments to genomic DNA. This technique is extremely sensitive and capable of isolating portions of rare transcripts. Exon-trapping (Church *et al.* Nature Genetics 6:98-105 (1994)) recovers spliced introns from *in vivo* expressed genomic DNA clones and produces candidate exons without requiring any prior knowledge of the target's gene expression. High-throughput genomic DNA sequencing with comparison of the sequence data to databases of expressed sequences has also been used, such as in the positional cloning of the Werner syndrome gene (Yu *et al.* Science 277:258-262 (1996)) and in cloning by homology of the second Alzheimer's disease gene on chromosome 1 (Levy-Lahad *et al.* Science 269:973-977 (1995)).

HH is typically inherited as a recessive trait; in the current state of knowledge, homozygotes carrying two defective copies of the gene are most frequently affected by the disease. In addition, heterozygotes for the HFE gene are more susceptible to sporadic porphyria cutanea tarda and potentially other disorders (Roberts *et al.*, Lancet 349:321-323 (1997)). It is estimated that approximately 10-15% of Caucasians carry one copy of the HFE gene mutation and that there are about one million homozygotes in the United States. HH, thus, represents one of the most common genetic disease mutations in Caucasian individuals. Although ultimately HH produces debilitating symptoms, the majority of homozygotes and heterozygotes have not been diagnosed.

The need for such diagnostics is documented, for example, in Barton, J.C. *et al.* Nature Medicine 2:394-395 (1996); Finch, C.A. West J Med 153:323-325 (1990); McCusick, V. Mendelian Inheritance in Man pp. 1882-1887, 11th ed., (Johns Hopkins University Press, Baltimore (1994)); Report of a Joint World Health Organization/Hemochromatosis Foundation/French Hemochromatosis Association Meeting on the Prevention and Control of Hemochromatosis (1993); Edwards, C.Q. *et al.* New Engl J Med 328:1616-1620 (1993); Bacon, B.R. New Engl J Med 326:126-

127 (1992); Balan, V. et al. Gastroenterology 107:453-459 (1994); Phatak, P.D. et al. Arch Int Med 154:769-776 (1994).

A single mutation in the HFE gene, designated 24d1 in copending U.S.S.N. 08/630,912, gave rise to the majority of disease-causing chromosomes present in the population today.

5 This is referred to herein as the "common" or "ancestral" or "common ancestral" mutation. These terms are used interchangeably. It appears that about 80% to 90% of all HH patients carry at least one copy of the common ancestral mutation which is closely linked to specific alleles of certain genetic markers close to this ancestral HFE gene defect. These markers are, as a first approximation, in the allelic form in which they were present at the time the ancestral HFE mutation occurred. See, for
10 example, Simon, M. et al. Am J Hum Genet 41:89-105 (1987); Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995); Worwood, M. et al. Brit J Hematol 86:863-866 (1994); Summers, K.M. et al. Am J Hum Genet 45:41-48 (1989).

Several polymorphic markers in the HFE region have been described and shown to have alleles that are associated with HH disease. These markers include the published microsatellite
15 markers D6S258, D6S306 (Gyapay, G. et al. Nature Genetics 7:246-339 (1994)), D6S265 (Worwood, M. et al. Brit J Hematol 86:833-846 (1994)), D6S105 (Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995)), D6S1001 (Stone, C. et al. Hum Molec Genet 3:2043-2046 (1994)), D6S1260 (Raha-Chowdhury et al. Hum Molec Genet 4:1869-1874 (1995)) as well as additional microsatellite and single-nucleotide-polymorphism markers
20 disclosed in co-pending PCT application WO 96/06583, the disclosure of which is hereby incorporated by reference in its entirety. Additionally, copending U.S.S.N. 08/630,912 disclosed additional markers 24d2 and 24d7.

The symptoms of HH are often similar to those of other conditions, and the severe effects of the disease often do not appear immediately. Accordingly, it would be desirable to provide a
25 method to identify persons who may be destined to become symptomatic in order to intervene in time to prevent excessive tissue damage associated with iron overload. One reason for the lack of early diagnosis is the inadequacy of presently available diagnostic methods to ascertain which individuals are at risk, especially while such individuals are presymptomatic.

Although blood iron parameters can be used as a screening tool, a confirmed
30 diagnosis often employs liver biopsy which is undesirably invasive, costly, and carries a risk of mortality. Thus, there is a clear need for the development of an inexpensive and noninvasive diagnostic test for detection of homozygotes and heterozygotes in order to facilitate diagnosis in symptomatic individuals, provide presymptomatic detection to guide intervention in order to prevent organ damage, and for identification of heterozygote carriers.

35 Furthermore, a need exists for both methods for fine structure mapping and a fine structure map of the region of the chromosome to which the HH locus maps. This and other needs are addressed by the present invention.

SUMMARY OF THE INVENTION

One aspect of the invention is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1.

5 Another aspect of the invention is an oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1.

Another aspect of the invention is an isolated nucleic acid molecule comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic site of Table 1.

10 Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a haplotype of

Table 1,

15 wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

20 providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a genotype defined by a polymorphic allele of Table 1,

25 wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a culture of lymphoblastoid cells having the designation ATCC CRL-12371.

30 One aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF3.

35 A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF5.

40 A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to RoRet.

5 Additional aspects of the invention include nucleic acid sequences that are cDNAs, polypeptides encoded by the nucleic acids of the invention and antibodies specifically immunoreactive thereto, vectors comprising the nucleic acid sequences of the invention, and host cells stably transfected with the nucleic acids of the invention.

10 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF3.

15 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF5.

20 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of RoRet.

BRIEF DESCRIPTION OF THE DRAWINGS

25 Figure 1 depicts a combination genetic, physical and transcription map of the HFE gene region. The first line shows the relative positions of selected genetic markers that define the HFE region. The heavy bar below represents the YAC clone used in the direct selection experiment. The order and positions of the bacterial clones employed in the exon-trapping and sample sequencing is indicated under the YAC. The thin bar under the bacterial clones represents the approximate locations of a subset of the expressed sequence fragments mapped to the contig. The thicker bars show the location of the cDNAs cloned. Two regions are bracketed; the butyrophilin family of genes (BTF), and the region where complete genomic sequencing was carried out.

35 Figure 2 is a schematic of the 250 kb of genomic sequence including the HFE gene. Both the structure of the overall cDNA (top) and that corresponding to the coding regions (bottom), as well as the direction of transcription are shown. The positions of the histone genes, the zinc α -2 glycoprotein pseudogene, and the ESTs are also shown.

40 Figure 3 depicts an alignment of the predicted amino acid sequence of the BTF proteins. Sequences were aligned in a pair-wise fashion using CLUSTAL W (Thompson *et al.* Nucl. Acids Res. 22:4673-4680) to deduce the most parsimonious arrangement. The asterisks under the

alignment represent amino acids conserved in all 6 proteins; the "dots" represent conserved amino acids substitutions. Boxed are the regions within the proteins which correspond to three conserved motifs: 1) the B-G domain, 2) the transmembrane domain (TM), and 3) the B30-2 exon domain.

Figure 4, panel (A) depicts a Northern blot analysis of representative members of the two groups of BTF proteins, BTF1 and BTF5. BTF1 hybridized to all tissues on the blot as a major transcript at 2.9 kb and a minor one at 5.0 kb. BTF5 hybridized to several transcripts ranging between 4.0 and 3.1 kb and as a similar expression profile to BTF1. Autoradiography was for 24 hours. The β -actin hybridization demonstrated the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. In panel (B), RT-PCR analysis demonstrated that the expression of both genes was widespread. Included in the (+) lane are cDNA 21 and 44 as positive controls; the (-) lane represents the no-DNA control. Amplification using primers for the RFP gene (Isomura *et al.* Nucleic Acid Res. 20:5305-5310 (1992)) controlled for the integrity of the cDNA. All first strand cDNAs were checked for contaminating genomic DNA amplification by carrying out an identical experiment excluding the reverse transcriptase. In all cases, no amplification was obtained (data not shown).

Figure 5(A) depicts an alignment of the predicted amino acid sequence of the RoRet gene to the 52 kD Ro/SSA auto-antigen protein. The asterisks under the alignment represent conserved amino acids; the "dots" represent conserved amino acids substitutions. The putative DNA binding cysteine-rich domain and the B30-2 exon domain are boxed. Figure 5(B) depicts an alignment of the predicted amino acid sequence of the two novel putative sodium phosphate transport proteins to that of the NPT1.

Figure 6, panel (A) depicts a Northern blot analysis of the RoRet gene. The RoRet cDNA hybridized to 4 different transcripts, ranging from 7.1 kb to 2.2 kb. Autoradiography was performed for 4 days. The re-hybridization of the blot with a β -actin probe showed the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. Panel (B) depicts RT-PCR analysis of the RoRet gene. Included in the (+) lane was a cDNA 27 positive control. Weak amplification of the correct size was observed in the small intestine, kidney and liver. The other tissues were negative as was the no DNA control lane (-). The RFP primers demonstrated the integrity of the cDNA. Panel (C) depicts Northern blot analysis of NPT3 and NPT4. NPT3 was expressed at high abundance in the heart and muscle as a single 7.2 kb transcript. Lesser amounts were found in the other tissues. The expression pattern of NPT4 was more restricted, being found only in the liver and kidney as a smear of transcripts ranging from 2.6 to 1.7 kb. Panel (D) depicts RT-PCR analysis of the NPT3 and NPT4 genes. Included in the (+) lane were the respective cDNA22E and 22B positive controls. The NPT3 gene was expressed as the proper size PCR fragment in kidney, liver, spleen and testis. A smaller fragment was detected in all tissues with the exception of the liver. The no DNA control lane (-) was negative. NPT4 was expressed as the proper size fragment in the small intestine, kidney, liver and testis. Larger and smaller size fragments were found in all other tissues with the exception of the brain. For both genes these different size fragments may indicate alternative splice events. The no DNA control lane (-) was negative. The RFP primers demonstrated the integrity of the cDNA.

Figure 7 depicts the sequences of cDNA 21 (BTF1), cDNA 29 (BTF3), cDNA 23 (BTF4), cDNA 44 (BTF5), cDNA 32 (BTF2), cDNA 27 (RoRet), cDNA 22B (NPT3), cDNA22E (NPT4).

Figure 8 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an unaffected individual.

Figure 9 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an HH affected individual. Polymorphic sites in the HH affected individual determined by comparing a sequence of the corresponding region from an HH unaffected individual are listed and described in Table I.

DETAILED DESCRIPTION

A. Definitions

Abbreviations for the twenty naturally occurring amino acids follow conventional usage. In the polypeptide notation used herein, the left-hand direction is the amino terminal direction and the right-hand direction is the carboxyl-terminal direction, in accordance with standard usage and convention. Similarly, unless specified otherwise, the left hand end of single-stranded polynucleotide sequences is the 5' end; the left hand direction of double-stranded polynucleotide sequences is referred to as the 5' direction. The direction of 5' to 3' addition of nascent RNA transcripts is referred to as the transcription direction; sequence regions on the DNA strand having the same sequence as the RNA and which are 5' to the 5' end of the RNA transcript are referred to as "upstream sequences"; sequence regions on the DNA strand having the same sequence as the RNA and which are 3' to the 3' end of the RNA transcript are referred to as "downstream sequences".

The term "nucleic acids", as used herein, refers to either DNA or RNA. "Nucleic acid sequence" or "polynucleotide sequence" refers to a single- or double-stranded polymer of deoxyribonucleotide or ribonucleotide bases read from the 5' to the 3' end. It includes both self-replicating plasmids, infectious polymers of DNA or RNA and nonfunctional DNA or RNA. The complement of any nucleic acid sequence of the invention is understood to be included in the definition of that sequence.

"Nucleic acid probes" may be DNA or RNA fragments. DNA fragments can be prepared, for example, by digesting plasmid DNA, or by use of PCR, or synthesized by either the phosphoramidite method described by Beaucage and Carruthers, *Tetrahedron Lett.* 22:1859-1862 (1981), or by the triester method according to Matteucci, *et al.*, *J. Am. Chem. Soc.* 103:3185 (1981), both incorporated herein by reference. A double stranded fragment may then be obtained, if desired, by annealing the chemically synthesized single strands together under appropriate conditions or by synthesizing the complementary strand using DNA polymerase with an appropriate primer sequence. Where a specific sequence for a nucleic acid probe is given, it is understood that the complementary strand is also identified and included. The complementary strand will work equally well in situations where the target is a double-stranded nucleic acid.

The phrase "selectively hybridizing to" refers to a nucleic acid probe that hybridizes, duplexes or binds only to a particular target DNA or RNA sequence when the target sequences are present in a preparation of total cellular DNA or RNA. "Complementary" or "target" nucleic acid sequences refer to those nucleic acid sequences which selectively hybridize to a nucleic acid probe. Proper annealing conditions depend, for example, upon a probe's length, base composition, and the number of mismatches and their position on the probe, and must often be determined empirically. For

discussions of nucleic acid probe design and annealing conditions, see, for example, Sambrook *et al.*, Molecular Cloning: a Laboratory Manual (2nd ed.), Vols. 1-3, Cold Spring Harbor Laboratory, (1989) or Current Protocols in Molecular Biology, F. Ausubel *et al.*, ed. Greene Publishing and Wiley-Interscience, New York (1987).

5 The phrase "nucleic acid sequence encoding" refers to a nucleic acid which directs the expression of a specific protein or peptide. The nucleic acid sequences include both the DNA strand sequence that is transcribed into RNA and the RNA sequence that is translated into protein. The nucleic acid sequences include both the full length nucleic acid sequences as well as non-full length sequences derived from the full length protein. It being further understood that the sequence
10 includes the degenerate codons of the native sequence or sequences which may be introduced to provide codon preference in a specific host cell.

 The phrase "isolated" or "substantially pure" refers to nucleic acid preparations that lack at least one protein or nucleic acid normally associated with the nucleic acid in a host cell.

 The phrase "expression cassette", refers to nucleotide sequences which are capable
15 of affecting expression of a structural gene in hosts compatible with such sequences. Such cassettes include at least promoters and optionally, transcription termination signals. Additional factors necessary or helpful in effecting expression may also be used as described herein.

 The term "operably linked" as used herein refers to linkage of a promoter upstream from a DNA sequence such that the promoter mediates transcription of the DNA sequence.

20 The term "vector", refers to viral expression systems, autonomous self-replicating circular DNA (plasmids), and includes both expression and nonexpression plasmids. Where a recombinant microorganism or cell culture is described as hosting an "expression vector," this includes both extrachromosomal circular DNA and DNA that has been incorporated into the host chromosome(s). Where a vector is being maintained by a host cell, the vector may either be stably
25 replicated by the cells during mitosis as an autonomous structure, or is incorporated within the host's genome.

 The term "gene" as used herein is intended to refer to a nucleic acid sequence which encodes a polypeptide. This definition includes various sequence polymorphisms, mutations, and/or sequence variants wherein such alterations do not affect the function of the gene product. The term
30 "gene" is intended to include not only coding sequences but also regulatory regions such as promoters, enhancers, and termination regions. The term further includes all introns and other DNA sequences spliced from the mRNA transcript, along with variants resulting from alternative splice sites.

 The term "plasmid" refers to an autonomous circular DNA molecule capable of replication in a cell, and includes both the expression and nonexpression types. Where a recombinant
35 microorganism or cell culture is described as hosting an "expression plasmid", this includes both extrachromosomal circular DNA molecules and DNA that has been incorporated into the host chromosome(s). Where a plasmid is being maintained by a host cell, the plasmid is either being stably replicated by the cells during mitosis as an autonomous structure or is incorporated within the host's genome.

The phrase "recombinant protein" or "recombinantly produced protein" refers to a peptide or protein produced using non-native cells that do not have an endogenous copy of DNA able to express the protein. The cells produce the protein because they have been genetically altered by the introduction of the appropriate nucleic acid sequence. The recombinant protein will not be found in association with proteins and other subcellular components normally associated with the cells producing the protein. The terms "protein" and "polypeptide" are used interchangeably herein.

The following terms are used to describe the sequence relationships between two or more nucleic acids or polynucleotides: "reference sequence", "comparison window", "sequence identity", "percentage of sequence identity", and "substantial identity". A "reference sequence" is a defined sequence used as a basis for a sequence comparison; a reference sequence may be a subset of a larger sequence, for example, as a segment of a full-length cDNA or gene sequence given in a sequence listing, or may comprise a complete cDNA or gene sequence.

Optimal alignment of sequences for aligning a comparison window may, for example, be conducted by the local homology algorithm of Smith and Waterman Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman and Wunsch J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson and Lipman Proc. Natl. Acad. Sci. U.S.A. 85:2444 (1988), or by computerized implementations of these algorithms (for example, GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetics Computer Group, 575 Science Dr., Madison, WI).

The terms "substantial identity" or "substantial sequence identity" as applied to nucleic acid sequences and as used herein and denote a characteristic of a polynucleotide sequence, wherein the polynucleotide comprises a sequence that has at least 85 percent sequence identity, preferably at least 90 to 95 percent sequence identity, and more preferably at least 99 percent sequence identity as compared to a reference sequence over a comparison window of at least 20 nucleotide positions, frequently over a window of at least 25-50 nucleotides, wherein the percentage of sequence identity is calculated by comparing the reference sequence to the polynucleotide sequence which may include deletions or additions which total 20 percent or less of the reference sequence over the window of comparison. The reference sequence may be a subset of a larger sequence.

As applied to polypeptides, the terms "substantial identity" or "substantial sequence identity" mean that two peptide sequences, when optimally aligned, such as by the programs GAP or BESTFIT using default gap weights, share at least 80 percent sequence identity, preferably at least 90 percent sequence identity, more preferably at least 95 percent sequence identity or more.

"Percentage amino acid identity" or "percentage amino acid sequence identity" refers to a comparison of the amino acids of two polypeptides which, when optimally aligned, have approximately the designated percentage of the same amino acids. For example, "95% amino acid identity" refers to a comparison of the amino acids of two polypeptides which when optimally aligned have 95% amino acid identity. Preferably, residue positions which are not identical differ by conservative amino acid substitutions. For example, the substitution of amino acids having similar chemical properties such as charge or polarity are not likely to effect the properties of a protein. Examples include glutamine for asparagine or glutamic acid for aspartic acid.

The phrase "substantially purified" or "isolated" when referring to a peptide or protein, means a chemical composition which is essentially free of other cellular components. It is preferably in a homogeneous state although it can be in either a dry or aqueous solution. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein which is the predominant species present in a preparation is substantially purified. Generally, a substantially purified or isolated protein will comprise more than 80% of all macromolecular species present in the preparation. Preferably, the protein is purified to represent greater than 90% of all macromolecular species present. More preferably the protein is purified to greater than 95%, and most preferably the protein is purified to essential homogeneity, wherein other macromolecular species are not detected by conventional techniques.

The phrase "specifically binds to an antibody" or "specifically immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in the presence of a heterogeneous population of proteins and other biologies. Thus, under designated immunoassay conditions, the specified antibodies bind to a particular protein and do not bind in a significant amount to other proteins present in the sample. Specific binding to an antibody under such conditions may require an antibody that is selected for its specificity for a particular protein. A variety of immunoassay formats may be used to select antibodies specifically immunoreactive with a particular protein. For example, solid-phase ELISA immunoassays are routinely used to select monoclonal antibodies specifically immunoreactive with a protein. See Harlow and Lane (1988) Antibodies, a Laboratory Manual, Cold Spring Harbor Publications, New York, for a description of immunoassay formats and conditions that can be used to determine specific immunoreactivity.

As used herein, "EST" or "Expressed Sequence Tag" refers to a partial DNA or cDNA sequence of about 150 to 500, more preferably about 300, sequential nucleotides of a longer sequence obtained from a genomic or cDNA library prepared from a selected cell, cell type, tissue or tissue type, or organisms whose longer sequence corresponds to an mRNA or a gene found in that library. An EST is generally DNA. One or more libraries made from a single tissue type typically provide at least 3000 different (i.e. unique) EST's and potentially the full complement of all possible EST's representing all possible cDNAs, e.g., 50,000 - 100,000 in an animal such as a human. (See, for example, Adams *et al.* Science 252:1651-1656 (1991)).

"Stringent" as used herein refers to hybridization and wash conditions of 50% formamide at 42°C. Other stringent hybridization conditions may also be selected. Generally, stringent conditions are selected to be about 5° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength and pH. The T_m is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is at least about 0.02 molar at pH 7 and the temperature is at least about 60°C. As other factors may significantly affect the stringency of hybridization, including, among others, base composition and size of the complementary strands, the presence of organic solvents and the extent of base mismatching, the combination of parameters is more important than the absolute measure of any one.

B. Transcript Map and New Genes near HH

The instant invention provides a fine structure map of the 1 megabase region surrounding the HFE gene. As part of that map the instant invention provides approximately 250 kb of DNA sequence of which about 235 kb are provided in Figure 8 and eight loci of particular interest corresponding to candidate genes within the 1 megabase region. These loci are useful as genetic and physical markers for further mapping studies. Additionally, the eight cDNA sequences corresponding to those loci are useful, for example, for the isolation of other genes in putative gene families, the identification of homologs from other species, and as probes for diagnostic assays. In particular, isolated nucleic acid sequences of at least 18 nucleotides substantially identical to contiguous nucleotides of a cDNA of the invention are useful as PCR primers. Typically, the PCR primer will be used as part of a pair of primers in a PCR reaction. Isolated nucleic acid sequences preferably comprising about 18-100 nucleotides, more preferably at least 18 nucleotides, substantially identical to contiguous nucleotides in a cDNA of the invention are useful in the design of PCR primers and probes for hybridization assays. Additionally, the proteins encoded by those cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

Thus, in one embodiment of the invention, a 235 kb sequence is provided for the HFE subregion within the 1 megabase region mapped. This sequence can serve as a reference in genetic or physical analysis of deletions, substitutions, and insertions in that region. Additionally, the sequence information provides a resource for the further identification of new genes in that region. Thus, nucleic acid sequences substantially identical to the 235 kb sequence are also included in the scope of this invention.

In a further embodiment of the invention, a family of five genes, BTF1-5, is provided which are related by sequence homology to the milk protein butyrophilin (BT) (Figures 1, 3, and 7). The predicted amino acid sequences of the proteins encoded by these genes are provided in Figure 3. These cDNAs are useful for the identification of further members of the BT family and to study regulation of expression of this family of genes. The proteins encoded by these cDNAs can be useful in the identification and isolation of ligands for the BT protein, and in the generation of agonists or antagonists of BT function. Nucleic acid sequences substantially identical to BTF1-5 and the proteins encoded by them are also included in the scope of this invention, including allelic forms.

In a further embodiment of the invention, a novel gene RoRet is provided, which is related by sequence homology to the 52 kD Ro/SSA Lupus and Sjogren's syndrome autoantigen. This sequence is especially useful in the identification of other genes that may be involved in Lupus or Sjogren's syndrome. The protein encoded by this cDNA can be useful in the identification and isolation of ligands for the autoantigen, and in the generation of agonists or antagonists of the antigen. Nucleic acid sequences substantially identical to RoRet and the proteins encoded by them are also included in the scope of this invention.

In a further embodiment of the invention, two genes, NPT3 and NPT4, with structural homology to a type 1 sodium transport gene are provided. These cDNAs and the proteins expressed by them are useful in determining the etiology of hypophosphatemia, along with being useful as probes

in the identification and isolation of further members of the gene family. Nucleic acid sequences substantially identically to the NPT1-like sequences and the proteins encoded by them are also included in the scope of this invention.

C. Polymorphic Markers

5 The invention provides 397 new polymorphic sites in the region of the HFE gene. These polymorphisms are listed in Table 1. As described below, these polymorphisms were identified by comparison of the DNA sequence of an affected individual homozygous for the common ancestral HH mutation with that of an unaffected individual disclosed in copending U.S. 08/724,394.

10 **Table 1. Polymorphic Sites in the HH Region**

Base Location	Difference	Base Location	Difference
35-36	AC DEL	19755	G-A
841	T-C	19949	C-T
15 2662-2663	TT DEL	20085	C-T
3767	T-C	20366-20367	A INS
3829	C-G	20463	C-A
4925-4928	TAAA DEL	20841	A-T
5691	C-T	21059	A-T
20 5839	T-C	21117	A-G
6011	G-A	21837	A-C
6047	C-G	22293	A-C
6231	G-A	22786	C-A
6643	A DEL	23009	G-A
25 6698	T-C	24143	T-A
7186	T-C	26175	G-C
7273	G-A	26667	C-A
7545-7558	TCACACACCGATTGG DEL	26994	T-C
7672	G DEL	27838	G-T
30 7933	T-C	27861	T DEL
8746	T-G	28132	G-A
9115	G-A	29100	G-A
9823	G-A	29454-29457	TTTT DEL
10027	G-A	29787	T-G
35 10214	C-T	29825	A-C
10828	A-G	30009	T-C
10918	C-G	30177	A-G
10955	A-G	30400	A-G
11524	C-A	31059	T-A
40 11674	A-G	31280	C-T
11955	T-C	31749	C-T
12173-12175	TTT DEL	32040	C-G
13304	G-A	32556-32559	TGTG DEL
13455	G-A	33017	T-G
45 14416-14417	A INS	33026	T DEL
14998	C-T	34434	C-T
15564	T-C	35179	A-C
15887	A-G	35695	G-A
15904-15919	CCAAACTGATCTTTGA DEL	35702	G-A
50 16019	T DEL	35983	A-G
16211	A-T	37411	A-G
17461	A-G	38526	C-T

	Base Location	Difference	Base Locati n	Difference
	40431	C-A	72688	C-G
	42054-42055	TT DEL	75323-75324	T INS
	43783-43784	TTTT INS	75887	G-C
5	45120	C DEL	77519	T-C
	45567	A-C	77749	G-A
	46601	A-T	77908	T-C
	47255	C-G	78385	C-G
	47758	C-A	78592-78593	AG INS
	47994	G-C	80189	T-G
10	48440	G-A	80279	T DEL
	48650	T-G	80989-80990	A INS
	48680	A-G	81193	T-C
	50240	C-T	81273	A DEL
	50553	G-A	82166	G-A
15	50586	G-T	83847	T DEL
	51322	G-C	84161-84162	CA-GG
	51747	A-G	84533	A-G
	52474	C-G	84638	T-G
	52733	C-A	85526	T-G
20	52875	G-A	85705	G-T
	53631-53637	TTTTTT DEL	86984	T-C
	53707	G-A	87655	T-C
	54819	A-G	87713	A-C
	55913	T-C	87892	C-T
25	56225	A-C	88192	T DEL
	56510	T-C	88528	A-G
	56566	G-A	89645	A-T
	56618	A-T	89728	A-G
	57815	A-G	90088	T-C
30	58011	T DEL	91193-91194	2209bp INS
	58247-58248	T INS	91373	T-C
	58926	C-G	91433-91434	A INS
	59406	C-G	91747	G-A
	59422	G-C	93625	T DEL
35	60221-60222	A INS	95116-95117	T INS
	60656-60657	CA DEL	96315	G-A
	61162	G-A	97981	A-G
	61465	G-A	98351	T DEL
	61607	A DEL	99249	C-T
40	61653	T-C	100094-100095	T INS
	61794-61795	T INS	100647-100648	TTC INS
	62061	G-C	100951	C-T
	62362	T-G	101610	C-G
	62732	C-G	102589	C-T
45	63364	G-A	103076-103077	TATATATATATATA INS
	63430-63431	GT INS	103747	T-C
	63754	C-T	105638	A-C
	63785	A-C	107024	C-T
	63870-63871	A INS	107322	C-T
50	64788	A-G	107858	C-G
	64962	G-A	109019	A DEL
	65891	C-T	109579	T DEL
	66675	G-C	110021	C-A
	67186-67187	ATT INS	111251	C-A
55	67746-67747	TT INS	111425	G-A
	68259	T-C	112644	T-A
	68836	T-C	113001	G-C
	68976	C-G	113130	C-T
	72508	T-G	114026	G-A

	Bas Locati n	Difference	Base Locati n	Difference
	114250	A DEL	176222	T-C
	115217	C-G	176524	A-T
	117995	G-A	176684	G-A
5	118874	A-G	176815	T-C
	119470	T-C	177049	T-C
	119648	G-T	177065	G-T
	120853	C-T	178285	T-C
	121582	G-A	178551-178552	CTTTTTTTTTTTT INS
10	123578	A-C	179114-179115	A INS
	125581	C-T	179260	C-G
	125970	G-T	179281	C-G
	126197	A-G	180023	G-C
	126672	A DEL	180430	T-C
	126672	G-C	180773	T-C
15	128220-128221	A INS	180824	T-C
	132569	C-T	181097	C-T
	133572	A-C	181183	A-T
	134064	T-G	182351	C-T
20	136999	G-A	183197	G-A
	137784	C-T	183623	A-T
	138903	G-A	183653	G-T
	139159-139160	A INS	183657	T-G
	140359	G-A	183795-183796	A INS
	140898	C-T	184060	G-A
25	141313	C DEL	184993	G-A
	141343	T-C	185918	A-G
	142148	T-C	186036	T-C
	142178	C-A	186508-186507	TAAC INS
	142433-142434	ATAGA INS	186561-186568	TATTTATT DEL
30	143783	C-T	186690	G DEL
	144090	C-T	186751	T-A
	144220-144221	A INS	187221	A-G
	144725	A-C	187260	A-G
	145732-145733	AAAAAAAAAAAAA INS	187444-187447	CTCT DEL
35	147016-147017	CG DEL	187831-187832	C INS
	147021	G-T	188638	G-A
	147536	T-G	188642	C-T
	148936	T-A	189246	T-C
40	149081	T-C	190340	A-C
	154341	A-T	190354	A-G
	154588	G-A	190762	A-G
	155464	G-A	191260	G-T
	158574	C-G	193018-193019	AGAT INS
	160007	C-T	193147	T-G
45	164348	A-T	193198-193197	C INS
	164499	C-G	193499	C-T
	166677-166678	AAAG INS	193738	C-G
	167389	G-A	193984-193985	ACACACAC INS
	168506-168507	AGGATGGTCT INS	194064	C-G
50	168515	T-C	194504	A DEL
	169413-169414	AA INS	194734	G-A
	170300-170301	TTGTTGTTGTTG INS	194890	A-C
	170491	G-A	195404	G-A
	173428	T-C	195693	A-T
55	173642	G-A	196205	G-A
	173948	T-G	197424	C-T
	175330	T-C	197513	C-T
	175836	T-C	197670	G-A
	176200	G-C	198055	C-A

	Base Locati n	Difference	Base Locati n	Differenc
	198401	C-T	215947	C-A
	198692	A-G	216232	A-G
	198780	T DEL	217478	G-A
5	199030	T-G	219052	T-C
	199933	C-T	219082-219083	ATATATATATATATATAT INS
	200027	G-A	219314	C-A
	200439	T-A	219327	G-A
	200452	A-G	219560	C-T
10	200472-200483	AATAATAATAAT DEL	219660	C-T
	200559	A-T	219889	G-A
	200745	A-G	220198	G-T
	200919	T-A	220384	G-A
	201816	C-T	220451-220452	CAAAAA INS
15	201861-201862	42bp INS	221363	G-A
	202662	T-C	221645	G-A
	202880	T-C	222119	T-C
	204341	C-T	222358	A-G
	204768	A-T	222367	A-C
	205284	T-G	222686	A-G
20	207400	C-A	222959	T-C
	208634	T-C	223270-223271	TT DEL
	208718	T DEL	223283	T-C
	208862	A-C	224964	T-C
	209419-209420	TT DEL	225232	A-C
25	209802	G-A	225366-225367	TTTT INS
	209944	C-G	225416	G-C
	210299	A-G	225486	T-C
	211142	G-A	226088	A-G
	212072	G-A	228421	A-G
30	212146	T-C	230047	G-A
	212379	G-A	230109	G-C
	212637-212639	TCT DEL	230376	C-G
	212696	T-C	230394	A-G
	213042	T-A	231226	A-G
35	214192	A-G	231447	G-A
	214529-214530	TTTTTTTTTT INS	231835	A-G
	214549	T-C	232400-232402	AAA DEL
	214795	C-T	232402-232403	G INS
	214908	T-G	232515	T-C
40	214977	A-G	232703	G-T
	215769	C-T	232750	A-G

* D6S2238 occurs at base 1. 24d1 occurs at base 41316. D6S2239 occurs at base 84841. D6S2241 occurs at base 235032

45 Table 2. Polymorphic Allele Frequencies

	Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
	232703	53%	47%
	231835	53%	47%
	230394	85%	15%
50	230376	25%	75%
	230109	53%	47%
	225486	45%	55%
	225416	75%	25%
	220198	43%	57%
55	219660	58%	42%

	L cation	Frequency f ancestral variant in random chromosomes	Frequency f unaffected variant in random chromosomes
	219580	53%	47%
	214977	65%	35%
	214908	50%	50%
	214795	24%	76%
5	214549	53%	47%
	214192	65%	35%
	210299	53%	47%
	208862	80%	20%
	208634	48%	52%
10	207400	25%	75%
	205284	50%	50%
	204341	53%	47%
	202880	58%	42%
	202662	98%	2%
15	200027	25%	75%
	199030	58%	42%
	198692	55%	45%
	198401	55%	45%
	198055	55%	45%
20	195693	60%	40%
	195404	25%	75%
	194890	55%	45%
	175330	53%	47%
	173948	83%	17%
25	173642	55%	45%
	173428	80%	20%
	168515	80%	20%
	160007	18%	82%
	149061	58%	42%
30	148936	82%	18%
	147536	100%	0%
	147021	46%	54%
	141343	55%	45%
	140359	55%	45%
35	138903	55%	45%
	132569	81%	19%
	125581	18%	82%
	121582	80%	20%
	120853	18%	82%
40	118874	85%	15%
	115217	50%	50%
	113130	40%	60%
	113001	48%	52%
	107858	48%	52%
45	103747	50%	50%
	96315	25%	75%
	91184	80%	20%
	90088	75%	25%
	89728	50%	50%
50	89645	50%	50%
	88528	63%	37%
	87892	75%	25%
	87713	60%	40%
	87655	50%	50%
55	86984	79%	21%
	85705	50%	50%
	85526	50%	50%

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	L c a t i n	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
	84638	50%	50%
	84533	50%	50%
	82166	78%	22%
	81193	58%	42%
5	80189	50%	50%
	78385	80%	20%
	77908	88%	12%
	68976	50%	50%
	68259	51%	49%
10	66675	80%	20%
	62732	50%	50%
	62362	40%	60%
	61653	48%	52%
	61465	5%	95%
15	61162	60%	40%
	53707	100%	0%
	52875	50%	50%
	52733	74%	26%
	52474	47%	53%
20	50586	50%	50%
	50553	50%	50%
	50240	50%	50%
	48680	53%	47%
	48650	63%	37%
25	48440	50%	50%
	47255	50%	50%
	46601	53%	47%
	45567	49%	51%
	41316	5%	95%
30	40431	20%	80%
	38526	23%	77%
	37411	70%	30%
	35983	5%	95%

35 These polymorphisms provide surrogate markers for use in diagnostic assays to detect the likely presence of the mutations 24d1 and/or 24d2, in preferably 24d1, in homozygotes or heterozygotes. Thus, for example, DNA or RNA from an individual is assessed for the presence or absence of a genotype defined by a polymorphic allele of Table 1, wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

40 These markers may be used singly, in combination with each other, or with other polymorphic markers (such as those disclosed in co-pending PCT application WO 96/06583) in diagnostic assays for the likely presence of the HFE gene mutation in an individual. For example, any of the markers defined by the polymorphic sites of Table 1 can be used in diagnostic assays in combination with 24d1 or 24d2, or at least one of polymorphisms HHP-1, HHP-19, or HHP-29, or microsatellite repeat alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98; 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170; 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-

2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; and D6S1001:180.

Table 2 lists the frequency of about 100 of the alleles defined by the polymorphic sites of the invention in the general population. As is evident from the Table, certain of these alleles are present rarely in the general population. These polymorphisms are thus preferred as surrogate markers in diagnostic assays for the presence of a mutant HFE allele ("gene mutation") such as 24d1 or 24d2. Preferably, the frequency of the polymorphic allele used in the diagnostic assay in the general population is less than about 50%, more preferably less than about 25%, and most preferably less than about 5%. Thus, of the genotypes defined by the alleles listed in Table 2, polymorphisms occurring at base 35983 and base 61465 of Figure 1 are preferred.

It will be understood by those of skill in the art that because they were identified in an ancestral HH homozygote, the haplotypes defined by the polymorphic sites of Table 1 are predictive of the likely presence of the HFE gene mutation 24d1. Thus, for example, the likelihood of any affected individual having at least two or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual. Similarly, the likelihood of any affected individual having at least three or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual.

Thus, for example, in a diagnostic assay for the likely presence of the HFE gene mutation in the genome of the individual, DNA or RNA from the individual is assessed for the presence or absence of a haplotype of Table 1, wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

The markers defined by the polymorphic sites of Table 1 are additionally useful as markers for genetic analysis of the inheritance of certain HFE alleles and other genes which occur within the chromosomal region corresponding to the sequence of Figure 9 which include, for example, those disclosed in copending U.S.S.N. 08/724,394.

As the entire nucleotide sequence of the region is provided in Figure 9, it will be evident to those of ordinary skill in the art which sequences to use as primers or probes for detecting each polymorphism of interest. Thus, in some embodiments of the invention, the nucleotide sequences of the invention include at least one oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1. Furthermore, in some embodiments of the invention a preferred hybridization probe is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1. In some embodiments the polymorphic site is at base 35983 or base 61465.

It will also be appreciated that the nucleic acid sequences of the invention include isolated nucleic acid molecules comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic

site of Table 1. Such isolated DNA sequences are useful as primers, probes, or as the component of a kit in diagnostic assays for detecting the likely presence of the HFE gene mutation in an individual.

D. Nucleic Acid Based Screening

Individuals carrying polymorphic alleles of the invention may be detected at either the DNA, the RNA, or the protein level using a variety of techniques that are well known in the art. The genomic DNA used for the diagnosis may be obtained from body cells, such as those present in peripheral blood, urine, saliva, bucca, surgical specimen, and autopsy specimens. The DNA may be used directly or may be amplified enzymatically *in vitro* through use of PCR (Saiki et al. Science 239:487-491 (1988)) or other *in vitro* amplification methods such as the ligase chain reaction (LCR) (Wu and Wallace Genomics 4:560-569 (1989)), strand displacement amplification (SDA) (Walker et al. Proc. Natl. Acad. Sci. U.S.A. 89:392-396 (1992)), self-sustained sequence replication (3SR) (Fahy et al. PCR Methods Appl. 1:25-33 (1992)), prior to mutation analysis. The methodology for preparing nucleic acids in a form that is suitable for mutation detection is well known in the art.

The detection of polymorphisms in specific DNA sequences, such as in the region of the HFE gene, can be accomplished by a variety of methods including, but not limited to, restriction-fragment-length-polymorphism detection based on allele-specific restriction-endonuclease cleavage (Kan and Dozy Lancet ii:910-912 (1978)), hybridization with allele-specific oligonucleotide probes (Wallace et al. Nucl Acids Res 6:3543-3557 (1978)), including immobilized oligonucleotides (Saiki et al. Proc. Natl. Acad. Sci. U.S.A. 86:6230-6234 (1989)) or oligonucleotide arrays (Maskos and Southern Nucl Acids Res 21:2269-2270 (1993)), allele-specific PCR (Newton et al. Nucl Acids Res 17:2503-2516 (1989)), mismatch-repair detection (MRD) (Faham and Cox Genome Res 5:474-482 (1995)), binding of MutS protein (Wagner et al. Nucl Acids Res 23:3944-3948 (1995)), denaturing-gradient gel electrophoresis (DGGE) (Fisher and Lerman et al. Proc. Natl. Acad. Sci. U.S.A. 80:1579-1583 (1983)), single-strand-conformation-polymorphism detection (Orita et al. Genomics 5:874-879 (1983)), RNAase cleavage at mismatched base-pairs (Myers et al. Science 230:1242 (1985)), chemical (Cotton et al. Proc. Natl. Acad. Sci. U.S.A. 85:4397-4401 (1988)) or enzymatic (Youil et al. Proc. Natl. Acad. Sci. U.S.A. 92:87-91 (1995)) cleavage of heteroduplex DNA, methods based on allele specific primer extension (Syvänen et al. Genomics 8:684-692 (1990)), genetic bit analysis (GBA) (Nikiforov et al. Nucl Acids Res 22:4167-4175 (1994)), the oligonucleotide-ligation assay (OLA) (Landegren et al. Science 241:1077 (1988)), the allele-specific ligation chain reaction (LCR) (Barrany Proc. Natl. Acad. Sci. U.S.A. 88:189-193 (1991)), gap-LCR (Abravaya et al. Nucl Acids Res 23:675-682 (1995)), radioactive and/or fluorescent DNA sequencing using standard procedures well known in the art, and peptide nucleic acid (PNA) assays (Orum et al., Nucl. Acids Res. 21:5332-5356 (1993); Thiede et al., Nucl. Acids Res. 24:983-984 (1996)).

In addition to the genotypes defined by the polymorphisms of the invention, as described in co-pending PCT application WO 96/35802 published November 14, 1996, genotypes characterized by the presence of the alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98 (denoted 3321-1:197 therein); 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170 (denoted 4072-2:148 therein); 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-

5:108; 241-29:113; 373-8:151; and 373-29:113, alleles D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206; and D6S1001:180, and/or alleles associated with the HHP-1, the HHP-19 or HHP-29 single base-pair polymorphisms can also be used to assist in the identification of an individual whose genome contains 24d1 and/or 24d2. For example, the assessing step can be performed by a process which comprises subjecting the DNA or RNA to amplification using oligonucleotide primers flanking a polymorphism of Table 1, and oligonucleotides flanking 24d1 and/or 24d2, oligonucleotide primers flanking at least one of the base-pair polymorphisms HHP-1, HHP-19, and HHP-29, oligonucleotide primers flanking at least one of the microsatellite repeat alleles, or oligonucleotide primers for any combination of polymorphisms or microsatellite repeat alleles thereof.

Oligonucleotides useful in diagnostic assays are typically at least 8 consecutive nucleotides in length, and may range upwards of 18 nucleotides in length to greater than 100 or more consecutive nucleotides. Such oligonucleotides can be derived from either the genomic DNA of Figure 8 or 9, or cDNA sequences derived therefrom, or may be synthesized.

Additionally, the proteins encoded by such cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

E. General Methods

The nucleic acid compositions of this invention, whether RNA, cDNA, genomic DNA, or a hybrid of the various combinations, may be isolated from natural sources, including cloned DNA, or may be synthesized *in vitro*. The nucleic acids claimed may be present in transformed or transfected whole cells, in a transformed or transfected cell lysate, or in a partially purified or substantially pure form.

Techniques for nucleic acid manipulation of the nucleic acid sequences of the invention such as subcloning nucleic acid sequences encoding polypeptides into expression vectors, labeling probes, DNA hybridization, and the like are described generally in Sambrook *et al.*, Molecular Cloning - a Laboratory Manual (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1989), which is incorporated herein by reference. This manual is hereinafter referred to as "Sambrook *et al.*"

There are various methods of isolating the nucleic acid sequences of the invention. For example, DNA is isolated from a genomic or cDNA library using labeled oligonucleotide probes having sequences complementary to the sequences disclosed herein. Such probes can be used directly in hybridization assays. Alternatively probes can be designed for use in amplification techniques such as PCR.

To prepare a cDNA library, mRNA is isolated from tissue such as heart or pancreas, preferably a tissue wherein expression of the gene or gene family is likely to occur. cDNA is prepared from the mRNA and ligated into a recombinant vector. The vector is transfected into a recombinant host for propagation, screening and cloning. Methods for making and screening cDNA libraries are well known. See Gubler, U. and Hoffman, B.J. Gene 25:263-269 (1983) and Sambrook *et al.*

For a genomic library, for example, the DNA is extracted from tissue and either mechanically sheared or enzymatically digested to yield fragments of about 12-20 kb. The fragments

are then separated by gradient centrifugation from undesired sizes and are constructed in bacteriophage lambda vectors. These vectors and phage are packaged *in vitro*, as described in Sambrook, *et al.* Recombinant phage are analyzed by plaque hybridization as described in Benton and Davis, Science 196:180-182 (1977). Colony hybridization is carried out as generally described in M. Grunstein *et al.* Proc. Natl. Acad. Sci. USA, 72:3961-3965 (1975).

DNA of interest is identified in either cDNA or genomic libraries by its ability to hybridize with nucleic acid probes, for example on Southern blots, and these DNA regions are isolated by standard methods familiar to those of skill in the art. See Sambrook, *et al.*

In PCR techniques, oligonucleotide primers complementary to the two 3' borders of the DNA region to be amplified are synthesized. The polymerase chain reaction is then carried out using the two primers. See PCR Protocols: a Guide to Methods and Applications (Innis, M, Gelfand, D., Sninsky, J. and White, T., eds.), Academic Press, San Diego (1990). Primers can be selected to amplify the entire regions encoding a full-length sequence of interest or to amplify smaller DNA segments as desired.

PCR can be used in a variety of protocols to isolate cDNA's encoding a sequence of interest. In these protocols, appropriate primers and probes for amplifying DNA encoding a sequence of interest are generated from analysis of the DNA sequences listed herein. Once such regions are PCR-amplified, they can be sequenced and oligonucleotide probes can be prepared from sequence obtained.

Oligonucleotides for use as primers or probes are chemically synthesized according to the solid phase phosphoramidite triester method first described by Beaucage, S.L. and Carruthers, M.H., Tetrahedron Lett., 22(20):1859-1862 (1981) using an automated synthesizer, as described in Needham-VanDevanter, D.R., *et al.*, Nucleic Acids Res. 12:6159-6168 (1984). Purification of oligonucleotides is by either native acrylamide gel electrophoresis or by anion-exchange HPLC as described in Pearson, J.D. and Regnier, F.E., J. Chrom., 255:137-149 (1983). The sequence of the synthetic oligonucleotide can be verified using the chemical degradation method of Maxam, A.M. and Gilbert, W., in Grossman, L. and Moldave, D., eds. Academic Press, New York, Methods in Enzymology 65:499-560 (1980).

1. Expression

Once DNA encoding a sequence of interest is isolated and cloned, one can express the encoded proteins in a variety of recombinantly engineered cells. It is expected that those of skill in the art are knowledgeable in the numerous expression systems available for expression of DNA encoding a sequence of interest. No attempt to describe in detail the various methods known for the expression of proteins in prokaryotes or eukaryotes is made here.

In brief summary, the expression of natural or synthetic nucleic acids encoding a sequence of interest will typically be achieved by operably linking the DNA or cDNA to a promoter (which is either constitutive or inducible), followed by incorporation into an expression vector. The vectors can be suitable for replication and integration in either prokaryotes or eukaryotes. Typical expression vectors contain transcription and translation terminators, initiation sequences, and promoters useful for regulation of the expression of polynucleotide sequence of interest. To obtain

high level expression of a cloned gene, it is desirable to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. The expression vectors may also comprise generic expression cassettes containing at least one independent terminator sequence, sequences permitting replication of the plasmid in both eukaryotes and prokaryotes, *i.e.*, shuttle vectors, and selection markers for both prokaryotic and eukaryotic systems. See Sambrook *et al.* Examples of expression of ATP-sensitive potassium channel proteins in both prokaryotic and eukaryotic systems are described below.

a. **Expression in Prokaryotes**

A variety of procaryotic expression systems may be used to express the proteins of the invention. Examples include *E. coli*, *Bacillus*, *Streptomyces*, and the like.

It is preferred to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. Examples of regulatory regions suitable for this purpose in *E. coli* are the promoter and operator region of the *E. coli* tryptophan biosynthetic pathway as described by Yanofsky, C., J. Bacteriol. 158:1018-1024 (1984) and the leftward promoter of phage lambda (P_L) as described by Herskowitz, I. and Hagen, D., Ann. Rev. Genet. 14:399-445 (1980). The inclusion of selection markers in DNA vectors transformed in *E. coli* is also useful. Examples of such markers include genes specifying resistance to ampicillin, tetracycline, or chloramphenicol. See Sambrook *et al.* for details concerning selection markers for use in *E. coli*.

To enhance proper folding of the expressed recombinant protein, during purification from *E. coli*, the expressed protein may first be denatured and then renatured. This can be accomplished by solubilizing the bacterially produced proteins in a chaotropic agent such as guanidine HCl and reducing all the cysteine residues with a reducing agent such as beta-mercaptoethanol. The protein is then renatured, either by slow dialysis or by gel filtration. See U.S. Patent No. 4,511,503.

Detection of the expressed antigen is achieved by methods known in the art as radioimmunoassay, or Western blotting techniques or immunoprecipitation. Purification from *E. coli* can be achieved following procedures such as those described in U.S. Patent No. 4,511,503.

b. **Expression in Eukaryotes**

A variety of eukaryotic expression systems such as yeast, insect cell lines, bird, fish, and mammalian cells, are known to those of skill in the art. As explained briefly below, a sequence of interest may be expressed in these eukaryotic systems.

Synthesis of heterologous proteins in yeast is well known. Methods in Yeast Genetics, Sherman, F., *et al.*, Cold Spring Harbor Laboratory, (1982) is a well recognized work describing the various methods available to produce the protein in yeast.

Suitable vectors usually have expression control sequences, such as promoters, including 3-phosphoglycerate kinase or other glycolytic enzymes, and an origin of replication, termination sequences and the like as desired. For instance, suitable vectors are described in the literature (Botstein, *et al.*, Gene 8:17-24 (1979); Broach, *et al.*, Gene 8:121-133 (1979)).

Two procedures are used in transforming yeast cells. In one case, yeast cells are first converted into protoplasts using zymolyase, lyticase or glucylase, followed by addition of DNA and polyethylene glycol (PEG). The PEG-treated protoplasts are then regenerated in a 3% agar medium under selective conditions. Details of this procedure are given in the papers by J.D. Beggs, Nature (London) 275:104-109 (1978); and Hinnen, a., *et al.*, Proc. Natl. Acad. Sci. U.S.A. 75:1929-1933 (1978). The second procedure does not involve removal of the cell wall. Instead the cells are treated with lithium chloride or acetate and PEG and put on selective plates (Ito, H., *et al.*, J. Bact. 153:163-168 (1983)).

The proteins of the invention, once expressed, can be isolated from yeast by lysing the cells and applying standard protein isolation techniques to the lysates. The monitoring of the purification process can be accomplished by using Western blot techniques or radioimmunoassay or other standard immunoassay techniques.

The sequences encoding the proteins of the invention can also be ligated to various expression vectors for use in transforming cell cultures of, for instance, mammalian, insect, bird or fish origin. Illustrative of cell cultures useful for the production of the polypeptides are mammalian cells. Mammalian cell systems often will be in the form of monolayers of cells although mammalian cell suspensions may also be used. A number of suitable host cell lines capable of expressing intact proteins have been developed in the art, and include the HEK293, BHK21, and CHO cell lines, and various human cells such as COS cell lines, HeLa cells, myeloma cell lines, Jurkat cells, etc. Expression vectors for these cells can include expression control sequences, such as an origin of replication, a promoter (*e.g.*, the CMV promoter, a HSV *tk* promoter or *pgk* (phosphoglycerate kinase) promoter), an enhancer (Queen *et al.* Immunol. Rev. 89:49 (1986)), and necessary processing information sites, such as ribosome binding sites, RNA splice sites, polyadenylation sites (*e.g.*, an SV40 large T Ag poly A addition site), and transcriptional terminator sequences. Other animal cells useful for production of ATP-sensitive potassium channel proteins are available, for instance, from the American Type Culture Collection Catalogue of Cell Lines and Hybridomas (7th edition, (1992)).

Appropriate vectors for expressing the proteins of the invention in insect cells are usually derived from the SF9 baculovirus. Suitable insect cell lines include mosquito larvae, silkworm, armyworm, moth and *Drosophila* cell lines such as a Schneider cell line (See Schneider J. Embryol. Exp. Morphol. 27:353-365 (1987)).

As indicated above, the vector, *e.g.*, a plasmid, which is used to transform the host cell, preferably contains DNA sequences to initiate transcription and sequences to control the translation of the protein. These sequences are referred to as expression control sequences.

As with yeast, when higher animal host cells are employed, polyadenylation or transcription terminator sequences from known mammalian genes need to be incorporated into the vector. An example of a terminator sequence is the polyadenylation sequence from the bovine growth hormone gene. Sequences for accurate splicing of the transcript may also be included. An example of a splicing sequence is the VP1 intron from SV40 (Sprague, J. *et al.*, J. Virol. 45: 773-781 (1983)).

Additionally, gene sequences to control replication in the host cell may be incorporated into the vector such as those found in bovine papilloma virus type-vectors.

Saveria-Campo, M., 1985, "Bovine Papilloma virus DNA a Eukaryotic Cloning Vector" in DNA Cloning Vol. II a Practical Approach Ed. D.M. Glover, IRL Press, Arlington, Virginia pp. 213-238.

The host cells are competent or rendered competent for transformation by various means. There are several well-known methods of introducing DNA into animal cells. These include: calcium phosphate precipitation, fusion of the recipient cells with bacterial protoplasts containing the DNA, treatment of the recipient cells with liposomes containing the DNA, DEAE dextran, electroporation and micro-injection of the DNA directly into the cells.

The transformed cells are cultured by means well known in the art (Biochemical Methods in Cell Culture and Virology, Kuchler, R.J., Dowden, Hutchinson and Ross, Inc., (1977)). The expressed polypeptides are isolated from cells grown as suspensions or as monolayers. The latter are recovered by well known mechanical, chemical or enzymatic means.

2. Purification

The proteins produced by recombinant DNA technology may be purified by standard techniques well known to those of skill in the art. Recombinantly produced proteins can be directly expressed or expressed as a fusion protein. The protein is then purified by a combination of cell lysis (e.g., sonication) and affinity chromatography. For fusion products, subsequent digestion of the fusion protein with an appropriate proteolytic enzyme releases the desired polypeptide.

The polypeptides of this invention may be purified to substantial purity by standard techniques well known in the art, including selective precipitation with such substances as ammonium sulfate, column chromatography, immunopurification methods, and others. See, for instance, R. Scopes, Protein Purification: Principles and Practice, Springer-Verlag: New York (1982), incorporated herein by reference. For example, in an embodiment, antibodies may be raised to the proteins of the invention as described herein. Cell membranes are isolated from a cell line expressing the recombinant protein, the protein is extracted from the membranes and immunoprecipitated. The proteins may then be further purified by standard protein chemistry techniques as described above.

3. Antibodies

As mentioned above, antibodies can also be used for the screening of polypeptide products encoded by the polymorphic nucleic acids of the invention. In addition, antibodies are useful in a variety of other contexts in accordance with the present invention. Such antibodies can be utilized for the diagnosis of HH and, in certain applications, targeting of affected tissues.

Thus, in accordance with another aspect of the present invention a kit is provided that is suitable for use in screening and assaying for the presence of polypeptide products encoded by the polymorphic nucleic acids of the invention by an immunoassay through use of an antibody which specifically binds to polypeptide products encoded by the polymorphic nucleic acids of the invention in combination with a reagent for detecting the binding of the antibody to the gene product.

Once hybridoma cell lines are prepared, monoclonal antibodies can be made through conventional techniques of priming mice with pristane and interperitoneally injecting such mice with the hybrid cells to enable harvesting of the monoclonal antibodies from ascites fluid.

In connection with synthetic and semi-synthetic antibodies, such terms are intended to cover antibody fragments, isotype switched antibodies, humanized antibodies (mouse-human, human-

mouse, and the like), hybrids, antibodies having plural specificities, fully synthetic antibody-like molecules, and the like.

This invention also embraces diagnostic kits for detecting DNA or RNA comprising a polymorphism of Table 1 in tissue or blood samples which comprise nucleic acid probes as described herein and instructional material. The kit may also contain additional components such as labeled compounds, as described herein, for identification of duplexed nucleic acids.

The following examples are provided to illustrate the invention but not to limit its scope. Other variants of the invention will be readily apparent to one of ordinary skill in the art and are encompassed by the appended claims.

F. EXPERIMENTAL EXAMPLES

1. Megabase transcript map

In these studies direct selection, exon-trapping, and genomic sample sequencing were used to generate a transcript map of a 1 megabase region approximately 8.5 megabases telomeric to HLA-A in the vicinity of HFE. This region 6p21.3 was flanked by the genetic markers D6S2242 and D6S2241. The starting material for these experiments was a 1 megabase YAC labeled y899g1 and a bacterial clone contig of this region (Feder *et al.* Nature Genetics 13:399-408 (1996)). These techniques and other methods used in the study are outlined below.

a. Direct Selection (DS)

Poly A⁺ RNA from human fetal brain, liver and small intestine (Clontech, Palo Alto, CA) were converted into cDNA using random primers and a Superscript cDNA synthesis kit (Life Technologies, Gaithersburg, MD). The cDNA was digested with Mbo I and ligated to cDNA Mbo I linker-adaptors. Unligated linker-adaptor were removed by passage through cDNA spun columns (Pharmacia, Piscataway, NJ). The 5 ng of each of the ligated cDNAs were amplified using the cDNA Mbo I-S primer (5'-CCTGATGCTCGAGTGAATTC-3'). The amplified products were purified on S-400 spin columns (Pharmacia, Piscataway, NJ), ethanol precipitated and resuspended at 1mg/ml in TE. Gel-purified yac899g1 (Centre d'Etude du Polymorphisme Humain) was processed as described by Morgan *et al.* (Nucl. Acids Res. 20:5173-5179 (1992)). The cDNAs were mixed in equal molar amounts for a total of 3 mg, and blocked with a mixture of 4 mg Cot-1 DNA (Life Technologies, Gaithersburg, MD), and a cocktail of Sau 3A-digested ribosomal and five different histone DNAs. The blocked cDNAs were hybridized to biotinylated yac899g1 DNA and streptavidin capture was carried out as described by Morgan *et al.* (*ibid.*). After the second round of selection, the eluted cDNAs were amplified using the cDNA Mbo I-S primer which included a (CUA)₄ repeat at the 5' end to facilitate cloning into a version of pSP72 (Promega, Madison, WI) constructed for use with uracil-DNA glycosylase cloning (UDG, Life Technologies, Gaithersburg, MD). Recombinants were transformed in DH5 α , 1000 clones picked into a 96 well format, and clones prepped for DNA sequencing using AGTC boiling 96-well mini-prep system (Advance Genetic Technologies, Gaithersburg, MD).

Four hundred and sixty five clones were sequenced and the resulting data searched by BLAST (Altschul *et al.* J. Mol. Biol. 215:403-410 (1990)). Those clones representing repetitive, bacterial, yeast, mitochondrial and histone sequences were eliminated from future considerations. The remaining sequences were then searched for overlaps and assembled into 108 unique DS contigs.

The number of clones per DS contig varied between 1 to 22 with the length of each contig ranging from 250bp to 850 bp. Small sequence-tag-sites PCR assays were developed for each DS contig and two experiments were carried out concomitantly; mapping each DS contig back to the bacterial clone contig of the region and testing for the presence of each DS contig in cDNA libraries. Overall, 86 or 80% of the DS contigs mapped back to the region and were found to be in cDNA libraries. The number of 80% mapping to the region was probably an underestimate of the fidelity of the direct-selection since PCR assays which cross exon-intron boundaries would be expected to fail or give larger size products, thereby being scored negative.

b. Exon-Trapping

CsCl-purified genomic P1 (Genome Systems), BAC (Research Genetics) and PAC (Genome Systems) DNAs were digested with BamHI, Bgl II, Pst I Sac I and Xho I and 125 ng of each digest ligated into 500 ng pSPL3 (Church *et al.* Nature Genetics 6:98-105 (1994)) (Life Technologies, Gaithersburg, MD) digested with the appropriate restriction enzyme and phosphatased with calf intestinal alkaline phosphatase (USB, Cleveland, OH). One tenth of the ligation was used to transform XL1-Blue MRF' cells (Stratagene, La Jolla, CA) by electroporation. Nine tenths of the electroporation was used to inoculate 10 ml of LB + 100µg/ml of carbenicillin and after overnight growth, DNA was prepared using Qiagen Q-20 tips (Qiagen GmbH, Hilden Germany). The remaining one tenth was plated on LB +100 µg/ml carbenicillin plates to evaluate the efficiency on cloning and to test individual clones for the presence of single inserts. COS-7 cells were seeded overnight at a density of 1.4×10^5 /well in 6 well dishes. One µg of DNA was transfected using 6ml of Lipofect-Ace. Cytoplasmic RNA was isolated 48 hr post-transfection. RT-PCR was carried out as described by Church *et al.* (*ibid*) using commercially available reagents Life Technologies, Gaithersburg, MD). The resulting CUA-tailed PCR fragments for each restriction digested bacterial clone were pooled and UDG cloned into pSP72-U (a derivative of pSP72). The DNA was transformed in DH5α and the cells plated onto nylon membranes. After overnight growth, duplicates were made and the DNA hybridized to ³²P end-labeled oligos designed to detect various background products associated with the pSPL3 vector. One set of filters was hybridized with the following gel-purified oligos in 6X SSC aqueous hybridization solution at 42° C:

vector-vector splicing	5'-CGACCCAGCAACCTGGAGAT-3'
cryptic donor-1021	5'-AGCTCGAGCGGCCGCTGCAG-3'
cryptic donor-1134	5'-AGACCCCAACCCACAAGAAG-3'

The filters were washed twice in 6X SSC, 10 mM sodium pyrophosphate (NaPPi) at 60°C, 30 mins.

After overnight autoradiography, non-hybridizing clones were picked and grown in 250 µl of LB + 100µg/ml of carbenicillin in 96 well mini-rack tubes. The samples were analyzed by PCR using the secondary PCR primers supplied in the kit (Life Technologies, Gaithersburg, MD) and those clones with inserts greater than 200 bp were selected for sequencing.

Ninety-six exon traps per bacterial clone were sequenced for a total of 768 reactions and the resulting data analyzed by BLAST. In addition, each potential exon was searched against a database of the 86 DS contigs to eliminate redundant sequences. PCR assays were developed for

each of the potential exons and they were tested for their presence in cDNA libraries. A total of 48 potential exons remained after these screening steps.

c. Sample Sequencing

A minimal set of bacterial clones chosen to cover y899g1 were prepped with the Qiagen Maxi-Prep system and purified on CsCl. Ten micrograms of DNA from each bacterial clone was sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5 α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well AGCT system and end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGCTACAAT. The MAP1 sequences were screened locally with the BLAST algorithm against all available public databases. All sequence identities were catalogued and cross referenced to the DS and exon-trapped databases.

A total of 3794 end sequence reactions were run to achieve the theoretical 1X coverage. Eighty-five percent of these sequences contained non-bacterial non-vector inserts. An additional 1060 end sequence reactions were run from the opposite end of the cloning vector to augment the sequence coverage and to prepare for contigging across selected regions. BLAST searches to all publicly available databases identified 12 histone genes and 74 unique expressed sequence fragments (ESF). The ESF represent a collection of ESTs and other expressed sequence fragments that were selected due to their sequence identity over a significant portion of genomic DNA. The ESF were cross referenced against the DS and exon-trapped databases to eliminate redundancies. 58 unique ESF remained, representing 39 distinct clones. Included in these ESF are 5 sequences homologous to histone genes.

Table 3. EST's found by Sample Sequencing Large Insert Bacterial Clones

Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A+ signal ¹	Genomic poly (A) _{cas}	cDNA Homology
EST03556	pc157c3	na ²	none ³	+	-	cDNA 28
ym33f11	pc157c3	ZNF	na	na	na	
EST04698	pc157c3	na	NSH ⁴	+	-	
EST04812	pc157c3	na	NSH	-	-	
yb89b08	pc157c3	NSH	na	na	na	
yd88g11	pc157c3	na	nsh	+	-	
yj49b01	pc157c3	NSH	na	na	na	
yv81d05	pc157c3	HG17 Human	NSH	+	-	cDNA 30
yg57h09	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21
yq23d08	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21

30	Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A + signal ¹	Genomic poly (A) _{nas}	cDNA Homology
	yo65f06	p196e20	NSH	na	na	na	cDNA 29
	yv88c09	p196e20	BUTYBOVIN	na	na	na	cDNA 29
	yd17d06	p196e20	NSH	na	na	na	cDNA 23
	ye25g03	p196e20	BUTYBOVIN	NSH	na	na	cDNA 44
5	ys04h08	pc45p21	NSH	NSH	+	-	cDNA 44
	yn01c05	p196e20	BUTYBOVIN	na	na	na	cDNA 32
	YG78F10	PC45P21	NSH	NSH	na	na	
	yh54f11	p196e20	none	NSH	-	-	
	ys05b08	pc157c3	NSH	Alu	-	+	
10	yb12h11	b132a12	NSH	Histone H3.1	-	-	
	HSC2EE082	b132a12	na	NSH	+	-	
	HUM160h11b	b132a12	none	na	na	na	
	yg04f09	b132b12	Line element	Alu	-	+	
	yd37d11	b132a12	NSH	Alu	-	+	
15	ym29g03	b132a12	Histone H2A	NSH	+	-	cDNA 37
	yi77b02	b132a12	NSH	NSH	-	-	cDNA 37
	yh76b05	b132a12	NSH	Alu	-	-	
	yu98e02	b132a12	NSH	Alue	-	+	
	yd72h12	b132a12	Alu	NSH	+	+	
20	yd19d03	pc222k22	Histone H2B.1	NSH	+	-	
	ye98g01	b132a12	NSH	NSH	+	-	cDNA
	yi61f07	b132a12	NSH	NSH	-	+	
	ESTO5340	b3e17	na	Alu	-	+	
	yd35d05	pc222k22	NSH	NSH	-	+	
25	yc52a05	pc75L14	NSH	na	na	na	
	yd84a05	pc75L14	none	none	-	?	
	yr42a05	pc75L14	NaPi transport	none	+	-	cDNA 22B
	yd83h08	b20h20	NSH	none	+	-	
	ye38c09	b20h20	NSH	Alu	-	+	
30	yp74c05	b20h20	NaPi transport	Alu	? ⁶	na	

Bracketed area is the critical region

1 Signal of ATAAA or ATTAA

2 Not available

35 3 "NONE" reported by blast

4 No Significant Homologies

5 3' splice that is not on contig

6 Poor EST sequence

d. cDNA library screening

Superscript plasmid cDNA libraries, brain, liver and testis, were purchased from Life

40 Technologies, Gaithersburg, MD. Colonies were plated on Hybond N filters (Amersham) using

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standard techniques. Insert probes from DS, exons and EST (I.M.A.G.E. clones; Genome Systems) were all isolated by PCR followed by purification in low-melting point agarose gels (Seakem). The DNAs were labeled in gel using the Prime-it II kit (Stratagene, La Jolla, CA). Small exon probes were labeled using their respective STS PCR primers instead of random primers. Up to 5 different probes were pooled in a hybridization. Filters were hybridized in duplicate using standard techniques. Putative positives were screened by PCR using the probe's STSs to identify clones. Inserts from positive clones were subcloned in pSP72 and sequenced.

e. Northern blots and RT-PCR analysis

Multiple tissue northern blots were purchased from Clontech and hybridized according to the manufacturer's instructions. RT-PCR was carried out on random primed first strand cDNA made from poly A+ RNA (Clontech) using AmpliTaq Gold (Perkin-Elmer). Control reactions were performed on RNA samples processed in the absence of reverse transcriptase to control for genomic DNA contamination.

f. Genomic Sequencing

The MAP1 sequences from the bacterial clones b132a2, 222K22, and 75L14 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. These sequences were also screened with the BLAST algorithm and all novel sequence identities were noted. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman *et al.* P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the 3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all bacterial clones to generate complete sequence across the region. The genomic sequence was analyzed with the BLAST nucleotide and protein homology algorithms and the GRAIL 1.2 software to identify novel open reading frames (ORF) for gene finding.

g. Discussion

A compilation of 174 ESF led to the construction of an expressed sequence map of the region that served as the framework for the isolation of full-length cDNAs (Figure 1). (The map shows the subset of ESF that were actually mapped). Probes were developed for 82 best ESFs which appeared to be derived from the coding portions of cDNAs and the appropriate cDNA libraries were screened. This led to the isolation of 19 cDNAs, 17 of which represented novel sequences. 70 of the 174 ESF were included in the cDNAs isolated (40%). 38 probes failed to produce any clones even after repeated screening of several libraries. 51 ESF which were not accounted for in the cDNAs

cloned were not used in any screen. Therefore, it is possible that some additional genes within this 1 megabase region may have escaped detection.

A list of these cDNAs cloned and a comparison of the methods used to find them is present d in Table 4. Direct selection found 14 out of the 18 cDNAs contained within the boundaries of the YAC used in the experiment. Exon trapping found 15 out of the 19 cDNAs contained within the boundaries of the large insert bacterial clone contig. Sample sequencing identified 11 genes that had corresponding ESTs in the public database.

Table 4. Comparison of gene finding methods

	Bacterial Clone	CDNA #	Homology	EST	DS	Exon Trap
	157c	28	zinc finger	EST03556	2	1
	157c3	30	nonhistone	yv81d05 yvh07a10	1	none
	157c3	46	ORF	yd88g11	1	
15	157c3	20	BT	none	none	3
	p18696	21	BTF1	yn01G5 yg23d08 yg57h09 yu15h03	4	5
	45p21	32	BTF2	yg78f10 yn01c05	7	3
	45p21	29	BTF3	ye25g03 yo65f06	2	9
	45p21	23	BTF4	yd17d06	4	6
20	45p21	44	BTF5	ys04h08	2	4
	3e17	41	genomic?	none	none	1
	132a2	43	genomic?	none	none	3
	132a2	36	genomic?	none	1	none
	132a2	37	histone 2A	ym29g03 yh87a03	3	none
25	75114	24	MHC class I	ye98g01	1	2
	132a2	39	genomic?	none	none	4
	132a2	27	Ro/SSA	none	3	4
	132a2	22B	NPT1-like	yr42a05 yf09g06	1	7
	20h20	22E	NPT1-like	none	2	5
30	20h20	NPT1	NPT1	yp74c05	N/A	3

As a final approach, a tiling path with overlapping end sequences from the sample sequence database was generated. Each 3 kb clone within the path was shotgun-sequenced using transposable elements as platforms for dual end sequencing. These individual clones were assembled in conjunction with the end sequences from all bacterial clones in the region. The resulting sequence (Figure 2) was analyzed systematically with BLAST homology searches and the Grail 1.2 program to identify novel open reading frames (ORF) and other gene-like structures. The BLAST homology searches did not produce any probes that had not already been identified by sample sequencing. Grail predicted exons for all the genes in the region, but was only able to assemble the histones into any representative form. A detailed analysis of BLAST homology searches to protein databases identified an enticing homology to a zinc alpha 2 glycoprotein approximately 25 kb upstream of HFE, but the lack of a substantial ORF and the presence of a stop codon suggested that it was a pseudogene. Figure 2 shows the positions, the exon and intron structures, and the relative orientation of transcription of novel genes within this region. Also shown are the positions and transcriptional orientations of the histone genes. A total of 12 histone genes were identified in this study.

In an effort to account for the ESTs that did not associate with the characterized genes in the 250 kb region, the genomic sequence around the putative 3' ends were examined for polyadenylation signals to determine whether certain EST sequences may have originated from genomic DNA contamination in the normalized cDNA libraries used in EST generation. The positions of the 14 ESTs found in this region are indicated in Figure 2 to show those associated with the cDNAs cloned and those which did not associate with genomic DNA of obvious coding potential. Four ESTs corresponded to 3 of the 4 cDNAs cloned from the region (Table 2). One EST encoded a histone H2B.1 gene and another was a repetitive element. Of the remaining 8, 6 EST clones were used as probes of cDNA libraries with negative results. Those sequences representing putative 3' ends of cDNA were searched for the presence of poly (A)+ addition signals. Five of the 13 ESTs which had 3' end sequence, had the sequence ATAAA or ATTAA. Five of the remaining 8 ESTs that did not have a poly (A)+ addition signal had genomic encoded stretches of poly (A) near the end of EST sequence and, therefore, may have been created by oligo d(T) priming of contaminating genomic DNA. This analysis was expanded to include all ESTs in the large-insert bacterial contigs with definitive 3' ends. Of the remaining 26, 15 had 3' end sequence and, of these, 8 had poly (A)+ addition signals. Five of these 8 ESTs were associated with the cloned cDNAs. Of the remaining 7 which did not have poly (A)+ addition signals, 4 had genomic encoded stretches of poly (A).

i. Butyrophilin gene family

The human homolog of the bovine butyrophilin gene (BT) was cloned and mapped to approximately 480 kb centromeric to HFE (Figure 1). BT is a transmembrane protein of unknown function which constitutes 40% of the total protein associated with the fat globule of bovine milk (Jack *et al.* J. Biol. Chem. 265:14481-14486 (1990)). A human homolog of BT has recently been cloned by Tayloer *et al.* (Biochem Biophys Acta 1306:1-4 (1996)). The results in this study indicated that BT is a member of a gene family with at least five other members of the family residing in this region (Figure 1). A comparison of these proteins is shown in Figure 3. The proteins were aligned based on their descending order of relatedness and to minimize gaps in the sequence. Each of the five proteins

display varying degrees of homology to BT. BTF1 (cDNA 21), BTF2 (cDNA 32), BTF5 (cDNA 44), and BTF3 (cDNA 29) are 45%, 48%, 46%, and 49%, identical to BT, whereas BTF4 (cDNA 23), which is more similar to BTF3 (cDNA 29), is only 26% identical. This low degree of identity to BT is largely due to a truncation at the carboxyl terminus of the protein. The BTF family falls into two groups: BTF1 and 2 which are more related to each other than to BT or the other BTF members, and BTF5, 3 and 4, which appear to have a common evolutionary origin. The order of these genes on the chromosome suggests that the BT gene has duplicated two times, giving rise to BTF1 and BTF5. Subsequently, it appears likely these two genes experienced further duplication events to give rise to the other members in their groups.

The three major components of BT, the B-G immunoglobulin superfamily domain (containing the V consensus sequence) (Miller *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:4377-4381 (1991)), the transmembrane region, and the B30-2 exon are found in all of these proteins (with the exception of BTF4 (cDNA 23) which lacks the B30-2 exon by virtue of the carboxyl terminal truncation). The exon B30-2 is a previously noted feature of the MHC class 1 region found approximately 200 kb centromeric to the HLA-A gene (Vernet *et al.*, J. Mol. Evol. 37:600-612 (1993)). In addition this exon is found in several genes of diverse function telomeric to HLA-A namely MOG (approximately 200 kb) and RFP (approximately 1 megabase) (Amadou *et al.* Genomics 26:9-20 (1995)).

The levels of the BTF mRNA were analyzed by northern blot analysis (Figure 4A). The expression of the BTF genes fell into two patterns. BTF1 and BTF2 were expressed as a single major transcript of 2.9 kb and one minor transcript of 5.0 kb. These genes were expressed at high levels in all the tissues tested with the exception of the kidney where the expression level was less. The two genes are 90% identical at the DNA sequence level, therefore, it is possible that the signal observed on the northern blots was the result of cross-hybridization and only one of the two genes was actually expressed. To address this possibility RT-PCR experiments were carried out on a panel of different tissues in order to detect possible tissue dependent expression that would suggest that both genes are expressed. Identical, and thus equivocal, results were obtained with both BTF1 and BTF2 amplification (Figure 4B).

The second group of genes, BTF3-5, are expressed as three (BTF5) (Figure 4A) and two (BTF3 and 4) transcripts ranging from 4.0 to 3.3 kb. BTF5 is expressed at moderate levels in all tissues tested with the exception of the kidney where the expression level is less. RT-PCR experiments showed that mRNA from the BTF5 gene can be found in all tissues tested, including the kidney (Figure 4B). Identical results were obtained with primers from the other genes of this group (data not shown). These genes are also 90% identical to each other at the DNA sequence level (but only 58% identical to BTF1 and 2), hence like BTF1 and BTF2, cross-hybridization could account for the similarity in size and patterns on the northern blots and RT-PCR. This might be particularly true for BTF4 which lacks the B30-2 exon but still hybridizes to larger size transcripts like BTF5 and BTF3.

ii. A gene with similarity to 52 kD Ro/SSA auto-antigen

Located approximately 120 kb telomeric to the HFE gene is a gene, RoRet, that has 58% amino acid similarity to the 52 kD Ro/SSA protein, an auto-antigen of unknown function that is frequently recognized by antibodies in patients with systemic lupus and Sjogren's syndrome (Anderson

et al. Lancet 2:456-560 (1961); Clark *et al. J. Immunol.* 102:117-122 (1969)) (Figures 1 and 2). Alignment of the predicted amino acid sequence of this cDNA with that of 52 kD Ro/SSA indicated two features associated with the 52 kD Ro/SSA protein: a putative DNA binding cysteine rich motif (C-X-(I,V)-C-X(11-30)-C-X-H-X-(F,I,L)-C-X(2)-C-(I,L,M)-X(10-18)-C-P-X-C) found at the N terminus (Freemont *et al. Cell* 64: 483-484 (1991)) and the B30-2 exon found near the carboxyl terminus, are both conserved in RoRet (Figure 5). Northern blot analysis indicated the RoRet gene was expressed as two major transcripts of 2.8 and 2.2 kb and two minor transcripts of 7.1 and 4.4 kb in all of the tissues on the blot at levels reflective of the RNA amounts as determined by β -actin probing (Figure 6A). Using RT-PCR, expression can also be detected in small intestine, kidney liver, and spleen (Figure 6B).

iii. Two genes with homology to a sodium phosphate transporter

A cDNA for a sodium phosphate transport protein (NPT1) was previously cloned and mapped to 6p21.3 using a somatic cell hybrid panel (Chong *et al. Genomics* 18:355-359 (1993)). NPT1 maps 320 kb telomeric to the HFE gene (Figures 1 and 2). Two additional cDNAs were cloned which show appreciable homology to NPT1 (Figure 5). These genes, NPT3 and NPT4, mapped 1.5 megabases and 1.3 megabases centromeric to the NPT1 gene (Figure 1). Like NPT1, the gene products of NPT3 and NPT4 were extremely hydrophobic, which may reflect a membrane location. Both proteins gave hydrophilicity profiles which were indistinguishable from NPT1 in this study (data not shown). Northern blot analysis indicated that the two genes have different patterns of expression (Figure 6C). NPT3 was expressed at high levels as a 7.2 kb transcript predominately in muscle and heart. Lesser amount of the mRNA were also found in brain, placenta, lung, liver and pancreas. RT-PCR analysis indicated that expression of the proper size PCR fragment for NPT3 was clearly absent in fetal brain, bone marrow and small intestine (Figure 6D). A smaller size fragment was detectable in all tissues with the exception of the liver, which may represent evidence for alternative splicing. Although expression was apparently absent from the kidney by northern blot analysis, it was detectable by RT-PCR. Expression was also noted in the mammary gland, spleen and testis. NPT4, on the other hand, was expressed only in the liver and the kidney as a smear of transcripts approximately 2.6 - 1.7 kb (Figure 6C). RT-PCR confirmed these results, although a small amount of the proper size PCR fragment was also found in the small intestine and testis (Figure 6D). Other tissues showed amplification, but the fragments were of larger and smaller size than that produced by the cDNA 22E positive control. Hence, these two genes which apparently have the structural characteristics of a sodium phosphate transporter, appeared to be under the control of different regulatory mechanism that lead to differential patterns of expression.

2. Sequencing of 235 kb from a Homozygous Ancestral (Affected) Individual

In these studies the entire genomic sequence was determined from an HH affected individual for a region corresponding to a 235,033 bp region surrounding the HFE gene between the flanking markers D6S2238 and D6S2241. The sequence was derived from a human lymphoblastoid cell line, HC14, that is homozygous for the ancestral HH mutation and region. The sequence from the ancestral chromosome (Figure 9) was compared to the sequence of the region in an unaffected individual (Figure 8) disclosed in copending U.S.S.N. 08/724,394 to identify polymorphic sites. A

subset of the polymorphic alleles so defined were further studied to determine their frequency in a collection of random individuals.

The cell line HC14 was deposited with the ATCC on June 25, 1997, and is designated ATCC CRL-12371.

5 **a. Cosmid Library Screening**

The strategy and methodology for sequencing the genomic DNA for the affected individual was essentially as described in copending U.S.S.N. 08/724,394, hereby incorporated by reference in its entirety. Basically, a cosmid library was constructed using high molecular weight DNA from HC14 cells. The library was constructed in the supercos vector (Stratagene, La Jolla, CA).
10 Colonies were replicated onto Biotrans nylon filters (ICN) using standard techniques. Probes from genomic subclones used in the generation of the sequence of the unaffected sequence disclosed in 08/724,394 were isolated by gel electrophoresis and electroporation. Subclones were chosen at a spacing of approximately 20 kb throughout the 235 kb region. The DNA was labeled by incorporation of ³²P dCTP by the random primer labeling approach. Positively hybridizing clones were isolated to
15 purity by a secondary screening step. Cosmid insert ends were sequenced to determine whether full coverage had been obtained, and which clones formed a minimal path of cosmids through the 235 kb region.

b. Sample Sequencing

A minimal set of cosmid clones chosen to cover the 235 kb region were prepped with
20 the Qiagen Maxi-Prep system. Ten micrograms of DNA from each cosmid preparation were sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 DNA polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into
25 electrocompetent DH5α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well Qiagen REAL, and the 5' to 3' DNA Prep Kit, and AGCT end-sequenced with oligo MAP1 using
30 standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT.

c. Genomic Sequencing

The MAP1 sequences from the cosmid clones HC182, HC187, HC189, HC195, HC199, HC200, HC201, HC206, HC207, and HC212 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for
35 sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently
40 mated with JGM (Strathman et al. P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the

3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all cosmid clones in the region.

In some regions, the coverage of the genomic sequence by cosmids was incomplete. Any gaps in the sequence were filled by using standard PCR techniques to amplify genomic DNA in those regions and standard ABI dye terminator chemistry to sequence the amplification products.

d. Identification of Polymorphic Sites

The assembled sequence of the cosmid clones in connection with the PCR amplified genomic DNA was compared to the genomic sequence of the unaffected individual using the FASTA algorithm. Numeric values were assigned to the sequenced regions of 1 to 235,303, wherein base 1 refers to the first C in the CA repeat of D6S2238 and base 235,303 is the last T in the GT repeat of D6S2241 of the unaffected sequence (Figure 8). Table 1 lists the differences between the two compared sequences. Note that previously disclosed (Feder et al., Nature Genetics 13:399-408 (1996)) polymorphic sites D6S2238 (base 1), D6S2241 (base 235,032), 24d1 (base 41316), and D6S2239 (base 84841) are not included in the list of new polymorphisms, although they are provided for reference in a footnote to the Table and were observed in the ancestral sequence. In the Table, a single base change such as C-T refers to a C in the unaffected sequence at the indicated base position that occurred as a T in the corresponding position in the affected sequence. Similarly, an insertion of one or more bases, such as TTT in the affected sequence, is represented as "TTT INS" between the indicated bases of the unaffected sequence. A deletion of one or more bases occurring in the affected sequence, such as AAA DEL, is represented as the deletion of the indicated bases in the unaffected sequence.

e. Characterization of Rare Polymorphisms

In this study about 100 of the polymorphisms of Table 1 were arbitrarily chosen for further characterization. Allele frequencies in the general population were estimated by OLA analysis using a population of random DNAs (the "CEPH" collection, J. Dausset et al., Genomics 6(3):575-577 (1990)). These results are provided in Table 2.

One single base pair difference, occurring at base 35983 and designated C182.1G7T/C (an A to G change on the opposite strand) was present in the ancestral chromosome and rare in the random DNAs. This change occurred in a noncoding region of the hemochromatosis gene near exon 7 approximately 5.3 kb from the 24d1 (Cys282Tyr) mutation. OLA was used to genotype 90 hemochromatosis patients for the C182.1G7T/C base pair change. The frequency for C occurring at this position in the patients was 79.4% as compared to 5% in the random DNAs. Eighty-five of the 90 patients assayed contained identical 24d1 and C182.1G7T/C genotypes. Four of the remaining 5 patients were homozygous at 24d1 and heterozygous at C182.1G7T/C; one was heterozygous at 24d1 and homozygous at C182.1G7T/C. The primers used for this analysis were as follows.

PCR primers for detection:

182.1G7.F 5'-GCATCAGCGATTAACCTTCTAC -3'

182.1G7.R 5'-TTGCATTGTGGTGAAATCAGGG -3'

For the detection assay, the biotinylated primers used were as follows.

5 182.1G7.C 5' (b)CTGAGTAATTGTTTAAGGTGC -3'

182.1G7.T 5' (b)CTGAGTAATTGTTTAAGGTGT -3'

The phosphorylated digoxigenin-labeled primer used was:

182.1G7.D 5' (p)AGAAGAGATAGATATGGTGG -3'

10 A further rare single base pair change was detected at 61,465bp. The inheritance pattern of this polymorphism, C195.1H5C/T (a G to A change on the opposite strand), is identical to that of 24d1. The frequency of T occurring at that position (C195.1H5T) observed in a set of 76 patients was 78.5% as compared to 5% in random individuals.

15 PCR primers for detection:

1951H5.3F 5'-GAATGTGACCGTCCCATGAG-3'

1951H5.3R 5'-CAACTGAATATGCAGAAAAAAGTACACC-3'

For the detection assay, the biotinylated primers used were:

1951H5.3.4 5' (b)AGTAGCTGGGACTCACGGTGT-3'

20 1957H5.3.5 5' (b)AGTAGCTGGGACTCACGGTGC-3'

The phosphorylated digoxigenin-labeled primer used was:

1951H5.3.6 5' (p)GCGCCACCACTCCCAGCTCAT-3'

25 These rare alleles are thus preferred surrogate markers for 24d1 and are especially useful in screening assays for the likely presence of 24d1 and/or 24d2.

All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety.

WHAT IS CLAIMED IS:

- 1 1. An oligonucleotide comprising at least 8 to about 100 consecutive bases from the
2 sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100
3 consecutive bases includes at least one polymorphic site of Table 1.
- 1 2. The oligonucleotide of claim 1, wherein the polymorphic site is selected from the
2 group consisting of base 35983 or base 61465.
- 1 3. An oligonucleotide pair selected from the sequence of Figure 9 or its complement for
2 amplification of a polymorphic site of Table 1.
- 1 4. An isolated nucleic acid molecule comprising about 100 consecutive bases to about
2 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at
3 least one polymorphic site of Table 1.
- 1 5. The isolated nucleic acid molecule of claim 4, wherein the polymorphic site is selected
2 from the group consisting of base 35983 or base 61465.
- 1 6. The isolated nucleic acid molecule of claim 4, wherein the nucleic acid is selected
2 from the group consisting of cDNA, RNA, or genomic DNA.
- 1 7. A polypeptide encoded by the nucleic acid molecule of claim 4.
- 1 8. An antibody which specifically recognizes the polypeptide of claim 7.
- 1 9. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,
5 wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the
6 HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the
7 likely presence of the HFE gene mutation in the genome of the individual.
- 1 10. The method of claim 9, wherein the method further comprises assessing the RNA or
2 DNA for the presence of at least one of the polymorphisms 24d1, 24d2, HHP-1, HHP-19, or HHP-29;
3 or microsatellite repeat alleles 19D9:205, 18B4:235, 1A2:239, 1E4:271, 24E2:245, 2B8:206, 3321-
4 1:98, 4073-1:182, 4440-1:180, 4440-2:139, 731-1:177, 5091-1:148, 3216-1:221, 4072-2:170, 950-
5 1:142, 950-2:164, 950-3:165, 950-4:128, 950-6:151, 950-8:137, 63-1:151, 63-2:113, 63-3:169, 65-

6 1:206, 65-2:159, 68-1:167, 241-5:108, 241-29:113, 373-8:151, 373-29:113, D6S258:199, D6S265:122,
7 D6S105:124, D6S308:238, D6S464:206, or D6S1001:180.

1 11. The method of claim 9, wherein the haplotype comprises at least two polymorphic
2 sites of Table 1.

1 12. The method of claim 11, wherein one of the at least two polymorphic sites of Table 1
2 is at base 35983 or 61465.

1 13. The method of claim 11, wherein the haplotype comprises at least three polymorphic
2 sites of Table 1.

1 14. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a genotype defined by a
5 polymorphic allele of Table 1,
6 wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1
7 indicates the likely absence of the HFE gene mutation in the genome of the individual and the
8 presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the
9 individual.

1 15. The method of claim 15, wherein the polymorphic allele occurs in less than about 50%
2 of a random population of individuals.

1 16. The method of claim 15, wherein the polymorphic allele occurs in less than about 25%
2 of a random population of individuals.

1 17. The method of claim 15, wherein the polymorphic allele occurs in less than about 5%
2 of a random population of individuals.

1 18. The method of claim 15, wherein the genotype is C182.1G7C or C195.1H5T.

1 19. A kit comprising one or more oligonucleotides of claim 1.

1 20. A kit comprising at least one oligonucleotide pair of claim 3.

1 21. A culture of lymphoblastoid cells having the designation ATCC CRL-12371.

- 1 22. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF1.
- 1 23. The isolated nucleic acid sequence of claim 23, wherein the nucleic acid is cDNA.
- 1 24. The polypeptide encoded by the isolated nucleic acid sequence of claim 23.
- 1 25. A vector comprising the nucleic acid sequence of claim 23.
- 1 26. A host cell stably transfected with the nucleic acid sequence of claim 23.
- 1 27. An antibody that is specifically immunoreactive with the polypeptide of claim 24.
- 1 28. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF2.
- 1 29. The isolated nucleic acid sequence of claim 28, wherein the nucleic acid is cDNA.
- 1 30. The polypeptide encoded by the isolated nucleic acid sequence of claim 28.
- 1 31. A vector comprising the nucleic acid sequence of claim 28.
- 1 32. A host cell stably transfected with the nucleic acid sequence of claim 28.
- 1 33. An antibody that is specifically immunoreactive with the polypeptide of claim 30.
- 1 34. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF3.
- 1 35. The isolated nucleic acid sequence of claim 34, wherein the nucleic acid is cDNA.
- 1 36. The polypeptide encoded by the isolated nucleic acid sequence of claim 34.
- 1 37. A vector comprising the nucleic acid sequence of claim 34.
- 1 38. A host cell stably transfected with the nucleic acid sequence of claim 34.
- 1 39. An antibody that is specifically immunoreactive with the polypeptide of claim 36.

- 1 40. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF4.
- 1 41. The isolated nucleic acid sequence of claim 40, wherein the nucleic acid is cDNA.
- 1 42. The polypeptide encoded by the isolated nucleic acid sequence of claim 40.
- 1 43. A vector comprising the nucleic acid sequence of claim 40.
- 1 44. A host cell stably transfected with the nucleic acid sequence of claim 40.
- 1 45. An antibody that is specifically immunoreactive with the polypeptide of claim 42.
- 1 46. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF5.
- 1 47. The isolated nucleic acid sequence of claim 46, wherein the nucleic acid is cDNA.
- 1 48. The polypeptide encoded by the isolated nucleic acid sequence of claim 46.
- 1 49. A vector comprising the nucleic acid sequence of claim 46.
- 1 50. A host cell stably transfected with the nucleic acid sequence of claim 46.
- 1 51. An antibody that is specifically immunoreactive with the polypeptide of claim 48.
- 1 52. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-3.
- 1 53. The isolated nucleic acid sequence of claim 52, wherein the nucleic acid is cDNA.
- 1 54. The polypeptide encoded by the isolated nucleic acid sequence of claim 52.
- 1 55. A vector comprising the nucleic acid sequence of claim 52.
- 1 56. A host cell stably transfected with the nucleic acid sequence of claim 52.
- 1 57. An antibody that is specifically immunoreactive with the polypeptide of claim 54.

1 58. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-4.

1 59. The isolated nucleic acid sequence of claim 58, wherein the nucleic acid is cDNA.

1 60. The polypeptide encoded by the isolated nucleic acid sequence of claim 58.

1 61. A vector comprising the nucleic acid sequence of claim 58.

1 62. A host cell stably transfected with the nucleic acid sequence of claim 58.

1 63. An antibody that is specifically immunoreactive with the polypeptide of claim 60.

1 64. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 RoRet.

1 65. The isolated nucleic acid sequence of claim 64, wherein the nucleic acid is cDNA.

1 66. The polypeptide encoded by the isolated nucleic acid sequence of claim 64.

1 67. A vector comprising the nucleic acid sequence of claim 64.

1 68. A host cell stably transfected with the nucleic acid sequence of claim 64.

1 69. An antibody that is specifically immunoreactive with the polypeptide of claim 66.

1 70. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF1.

1 71. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF2.

1 72. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF3.

1 73. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF4.

1 74. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF5.

1 75. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT3.

1 76. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT4.

1 77. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of RoRet.

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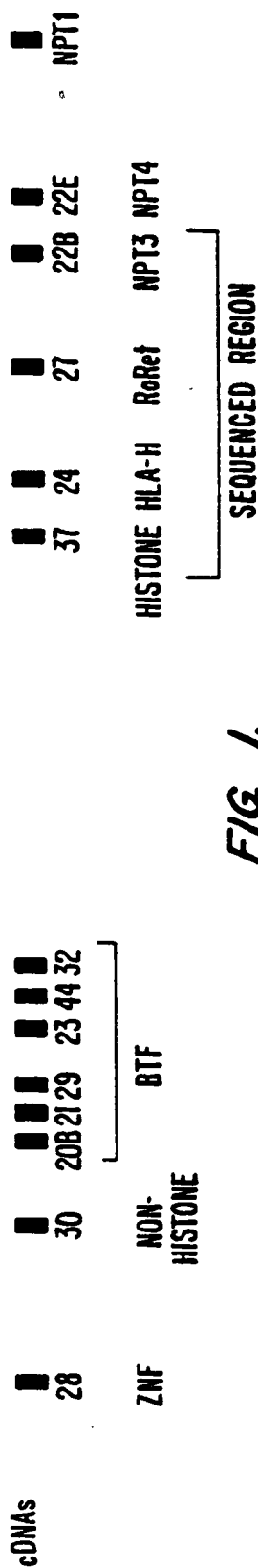
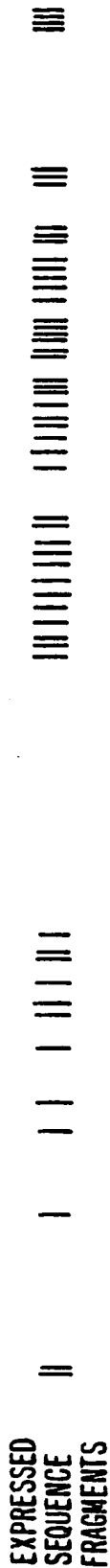
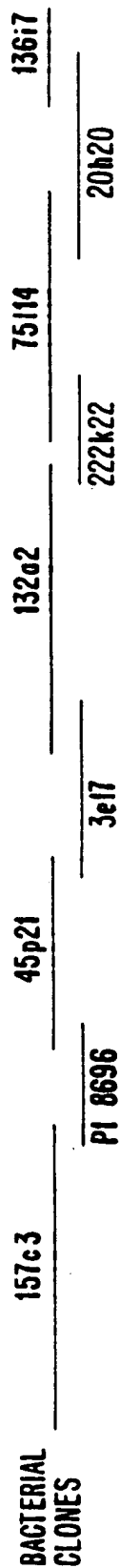
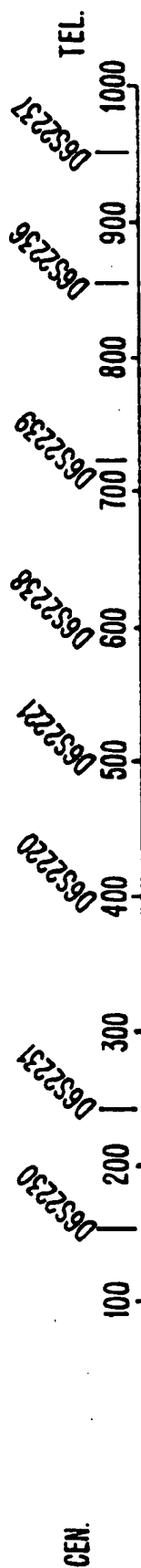


FIG. 1.

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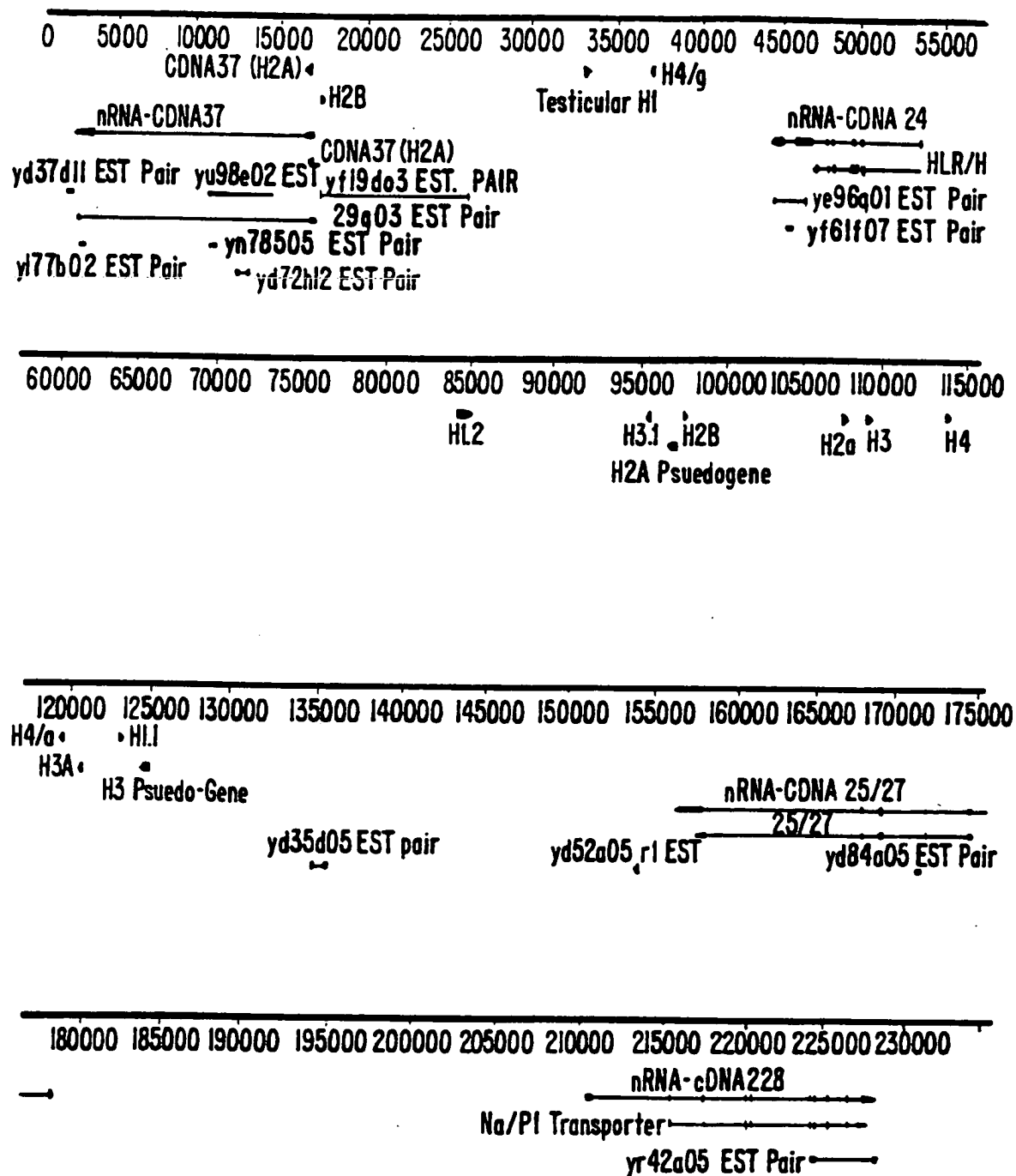


FIG. 2.

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BTF2    MEPAALHFSLPASLLLLLLLLLLLLSLCALVSAQFTVVGPNPILAMVGENTTLRCHLSPE
BTF5    MKMASFLAFLLLNFR---VCLLLLQLLMPHSAQFSVLGPGPIILAMVGEDADLPCHLFPT
BTF3    MKMASSLAFLLLNFH---VSLFLVQLLTPCSAQFSVLGPGPIILAMVGEDADLPCHLFPT
BTF4    MKMASSLAFLLLNFH---VSLLLVQLLTPCSAQFSVLGPGPIILAMVGEDADLPCHLFPT
      *      . * . *      * * * . * *      * * * * * . * * . *

BT      ASAEHLELRWFRKKVSPAVLVHRDGREQAEQMPEYRGRATLVQDGIAGRVALRIRGVR
BTF1    KNAEDMEVRWFRSQFSPAVFVYKGGRETEEQMEEYRGRTTFVSKDISRGSVALVIHNIT
BTF2    KNAEDMEVRWFRSQFSPAVFVYKGGRETEEQMEEYRGRTTFVSKDINRGSVALVIHNIT
BTF5    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF3    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF4    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
      * * . * . *      * *      *      * * * * . .      * *      * * * . . .

BT      VSDDGEYTCFFREDGSYEEALVHLKVAALGSDPHISMQVQENGEICLECTSVGWYPEPOV
BTF1    AQENGTYRCYFQEGRSYDEAILHLVVAGLGSKPLISMRGHEDGGIRLECISRGWYPKPLT
BTF2    AQENGIYRCYFQEGRSYDEAILRLVVAGLGSKPLIEIKAQEDGSIWLECISGGWYPEPLT
BTF5    ASDSGKYLICYFQDGDIFYEKALVELKVAALGSDLHVDVKGYKDGGIHLERSTGWYPQPOI
BTF3    ASDSGKYLICYFQDGDIFYEKALVELKVAALGSDLHIEVKGYEDGGIHLERSTGWYPQPOI
BTF4    ASDSGKYLICYFQDGDIFYEKALVELKVAALGSLNHVEVKGYEDGGIHLERSTGWYPQPOI
      . * * * . * . .      * . * . . * * * *      . . .      * * * * * * * * * *

BT      QWRTSKGEKFPSTSES RNPDEEGLFTVAASVIIRDSTKNVSCYIQNLLLGQEKKEVEISI
BTF1    VWRDPYGGVAPALKEVSMPDADGLFMVTTAVIIRDKSVRNMSCSINNTLLGQKKESVIFI
BTF2    VWRDPYGEVVPALKEVSIADADGLFMVTTAVIIRDKYVRNVSCSVNNTLLGQEKETVIFI
BTF5    QWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSCITIRSLLGLEKTASISI
BTF3    KWSDTKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGGGVSCIIRNSLLGLEKTASISI
BTF4    QWSNAKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGEGVSCIIRNSLLGLEKTASISI
      *      *      * .      *      * * . * . . . * .      . * * .      * * *      *      *

BT      PASSLPRLTFWIVAVAV-----ILMVLGLLTIGSIFFTWRLYNER-----
BTF1    PESEMPSVSPCAVALP-----IIVVILMPIAVCIYWINKLQKEKKILSGEK
BTF2    PESEMPASPWMVALAVILTASPWMVSMVILAVFIIIFMAVSICCIKKLQREKKILSGEK
BTF5    ADPFERSAQRWIAALAR-----TLPVLLLLLLGGAGYFLWQQQEEKKTQFRKK
BTF3    ADPFERSAQFWIAALAG-----TLPISLLLLLAGASYFLWRQQKEKIALSRET
BTF4    ADPFERSAQFWIAALAG-----TLPILLLLLLAGASYFLWRQQKEITALSSEI
      *      .      .      .      .      .      .      *

BT      PRER-----RNEFS-----SKERLLEELKWKATLHA-----
BTF1    EFERETREIALKELEKERVQKEELQVKEKLQEEELRWRTFLHA-----
BTF2    KVEQE-----EKE-----IAQQLQEEELRWRTFLHA-----
BTF5    KREQELREMAWSTMKEQS-----TRVKLLEELRWRSIQYASRGERHSAYNEWKKALF
BTF3    EREREMKEMGYAATEQEIS-----LREKLQEEELKWKIQYMARGEKSLAYHEWKMALF
BTF4    ESEQEMKEMGYAATEREIS-----LRESLQEEELKRKKSST-----
      *      .      *      *      * * * . .

BT      --VDVTLDPDTAHPHFLYEDSKSVRLEDSRQK---LPEKTERFDSWPCVLGRETFTSGR
BTF1    --VDVVLDPDTAHPDLFLSEDRRSVRRCPFRHLGESVPDNPERFDSQPCVLGRESFASGK
BTF2    --ADVVLDPDTAHPFLFLSEDRRSVRRGPYRQR---VPDNPERFDSQPCVLGWESFASGK
BTF5    KPADVILDPKTANPILLVSEDQRSVQRAKEPQD---LPDNPERFNWHYCVLGCESFISGR
BTF3    KPADVILDPDTANAILLVSEDQRSVQRAEPRD---LPDNPERFEWRYCVLGCENFTSGR
BTF4    -----

BT      HYWEVEVGDRTDWAIGVCRENVMKK-GFDPMTPENGFWAVELY-GNGYWALTPLRTPLPL
BTF1    HYWEVEVENVIEWTVGVCRDSVERK-GEVLLIPQNGFWTLEMH-KGQYRAVSSPDRILPL
BTF2    HYWEVEVENVMVWTVGVCRHSVERK-GEVLLIPQNGFWTLEMF-GNQYRALSSPERILPL
BTF5    HYWEVEVGDRKEWHIGVCSKNVQRK-GWVKMTPENGFWTMGLTDGNKYRTLTEPRTNLKL
BTF3    HYWEVEVGDRKEWHIGVCSKNVERKKGVKMTPENGYWTMGLTDGNKYRALTEPRTNLKL
BTF4    -----

```

Figure 3 (Page 1 of 2)

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BT AGPPRRVGIFLDYESGDISFYNMNDGSDIYTF SNVTFSGPLRPF FCLWSSGKKPLTICPI
BTF1 KESLCRVGVFLDYEAGDVSFYNM RDRSHIYTCPRSAFSVPVRPF FRLGC-EDSPIFICPA
BTF2 KESLCRVGVFLDYEAGDVSFYNM RDRSHIYTCPRSAFTVPVRPF FRLGS-DDSPIFICPA
BTF5 PKPPKKVGVFLDYETGDISFYNAVDGSHIHTFLDV SFSEALYPVFRILTLEPTALSICPA
BTF3 PEPPRKVGIFLDYETGEISFY NATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPI
BTF4 -----

BT ADGPVRTVIANAQDLSKEIPLSPMGEESAPRDADTLH SKLIPTQPSQGAP-----
BTF1 LTGANGVTVP-----EEGLTLHRVGTHQSL-----
BTF2 LTGASGVMVP-----EEGLKLHRVGTHQSL-----
BTF5 -----
BTF3 PKEVESSPDPLVDPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNH
BTF4 -----

BT -----
BTF1 -----
BTF2 -----
BTF5 -----
BTF3 KLQARTEALY
BTF4 -----

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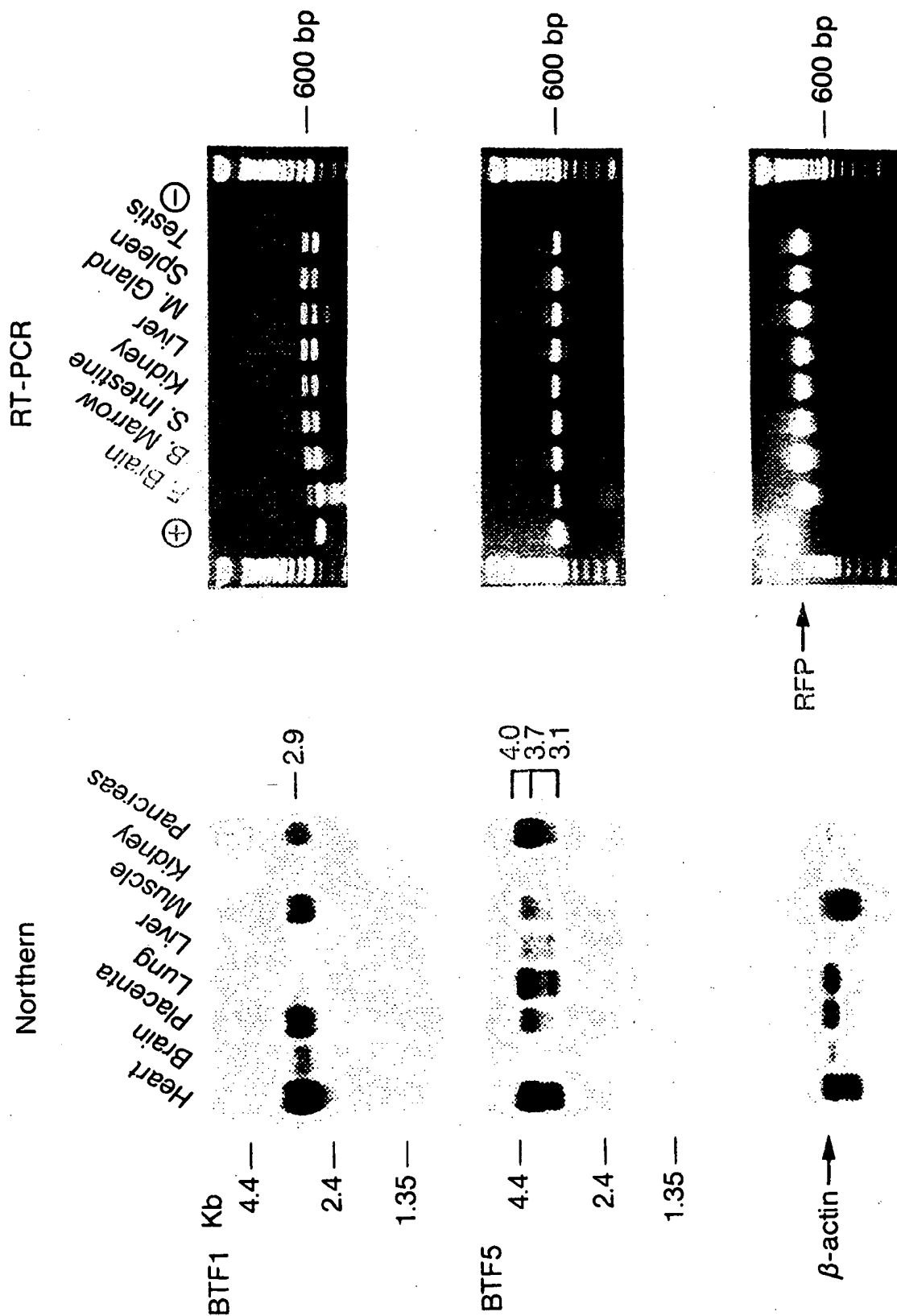


FIG. 4B.

FIG. 4A.

		CYSTEINE-RICH DOMAIN	
52 kD Ro	MASAARLTMMWEEVTCPICLDPFVEPVSI	ECGHSCQECISQVGKGGG	-----VCPVCRQRFLLKNLRPNRQLAMMVN
RoRet	MASTSTKKMMEEATCSICLSLMTNPVS	INCGHSYCHLCITDFKNP	SQQLRQETFCPCQCRAPFHMDSLRPNKQLGSLIE
	***	** ** *	*** ** *
52 kD Ro	NLKKISQEAAREGTQGERCAVHGERLHLFCEKDGKALCWVCAQSKKHRDHAMVPLEEAAQEQYQEKQLQVALGELRRKQELAEKL		
RoRet	ALKKTDQEM-----SCEEHGEQFHLFCEDEGQLICWRCERAPQHKGH	TALVEDVCQGYKEKLQKAVTKLKQLEDRCTEQ	
	***	**	*
52 kD Ro	EVEIAIKRADWKKTVETQKSRIHAEFVQQKNFLVEEEQRQLQELEKDEREQRLRILGEKEAKLAQSQALQELISELDRRCHS		
RoRet	KLSTAMRITKWKEKVQIQRKIRSDFKNLQCFLHEEEKSYLWRLEKEEQTL	SRLRDYEAGLGLKSNELKSHILELEKKCQG	
	*	**	*
52 kD Ro	SALELLQEVIIVLERSESNLKDLDITSPELRSVCHVP----	GLKKMLRTCAVHITLDPDTANPWLILSEDRRQVRLGDTQQ	
RoRet	SAQKLLQNVNDTILSRSWAVKLETSEAVSLELHTMCNVSKLYFDVKKMLRSHQVSVTLDPDTAHHELILSEDRRQVTRGYTQE		
	**	***	*
		B30-2 DOMAIN	
52 kD Ro	SIPGNEERFDSYPMVLGAQHFGHSGKHWEVDVTGKEAWDLGVCRD	SVRRKGHFLSSKSGFWTIWLNKQKYEAGTYPQTPL	
RoRet	NQDTSSRRFTAFPCLGCEGFTSGRRYFEVDVGE	GTGWDLGVCMENVQGTGMKQEPQSGFWTLRLCKKKGYVALTSPPTSL	
	**	*	*
52 kD Ro	HLQVPPCQVGIFLDYEAGMVSYFNITDHGSLIYSECAFTGPLRPF	FFSPGFNDGGKNTAPLTLCPLNIGSQGSTDY	
RoRet	HLHEQPLLVGIFLDYEAGVVSFYNG-NTGCHIFTFPKASFSDTLRPF	YFQVQYS-----PLFLPPP--G----	
	**	*	*

FIG. 5A.

NPT1 MQMDNRLPPKKVPFCSEFRYGLSFLVHCNVIITAQRACNLNLTVMVMVNSTDHGLPNTSTKKLLDNKN-----
 NPT3 --MDGKPTRKGPDFCSLRYGLALIMHFSNFTMITQRVSLSAI IAMVNTTQQQGLSNASTEGPVADAFNNSSISIKEFDTK
 NPT4 MQVDETLIPRKGPSLCSARYGIALVLHFCNFTTIAQNVMNITMVAMVNSTSPQSLNDSSE-----
 * * * * * * * * * * * * *

NPT1 -PMYNWSPDIQFIILSSTSYGVII IQVPVGYFSGIYSTKKMIGFALCLSSVLSLLIPPAAGIGVAVVVCRAVQAQGIVA
 NPT3 ASVYQWSPETQGIIFSSINYGIIILTLIPSGYLAGIFGAKKMLGAGLLISSLLTLFTPLAADFGVILVIMVRTVQGMAGMAW
 NPT4 -----VLPVDSFGGLSKAPKSLP-----AKSSIL
 * * * * * * * * * *

NPT1 TAQFEIYVKWAPPLERGLTSMSTSGFLLGPFIVLLVTGVICESLGWPMVFYIFGACGCAVCLLWFLFYDDPKDHPICISIS
 NPT3 TGQFTIWAKWAPPLERSKLTIIAGSGSAFGSFIILCVGGLISQALSWPFIYIFGSTGCVCCLLWFTVIYDDPMHHPICISVR
 NPT4 GGQFAIWEKWGPPQERSRLCSIALSGMLLGCFTAILIGGFISSETLWGPVFYIFGGVGCVCCLLWFEVVIYDDPFSPWISTS
 ** *

NPT1 EKEYITSSLVQQVSSSRQSLPIKAILKSLPVWAI SIGSTFFWSHNIMTLYTPMFINSMLHVNIKENGFLSSLPYLFAWICG
 NPT3 EKEHILSSLAQQPSSPGRAVP IKAMVTCLPLWAI FLGFFSHEWLCTIIILTYLPTYISTLLHVNI RD SGVLSSLPFI AAASCT
 NPT4 EKEYIISSLKQQVGSSKQPLPIKAMLRSLP IWSICLGCFSHQWL VSTMVVIPTIYISSVYHVNI RDNGLLSALPFI VAWVIG
 *** *

NPT1 NLAGQLSDFFLTRNILSVIAVRKLFTAAGFLLPAIFGVCLPYLSSTFYIVIFLILAGATGSCFCLGGVFINGLDIAPRYFGF
 NPT3 ILGQLADFLLSRNLRLITVRKLFSSLDQMVSSE-----SQDGLGSSQES-SLPLPLDSS-----
 NPT4 MVGGYLADFLITK-KFRLITVRKIATILGSLPSSALIVSLPYLNSGYITATALLTSCGLSTLCQSGIYINVLDIAPRYSF
 * * * * * * * * * *

NPT1 IKACSTLTGMIGGLIASTLTGLILKQDPESAWEKTFILMAAINVTGLIFYLIVATAEIQDWAKEKQHTRL
 NPT3 ----VRILSLVGMSFSCLL----QSTCLAWSFTRLDKQNEKFGPKRGPLPASEDIKLQT-----
 NPT4 LMGASRGFSSIAPIVPTVSGFLLSQDPFEGWRNVFFLLFAVNLLGLLFLYIFGEADVQEWAKERKLTRL
 * * * * * * * * *

FIG. 5B.

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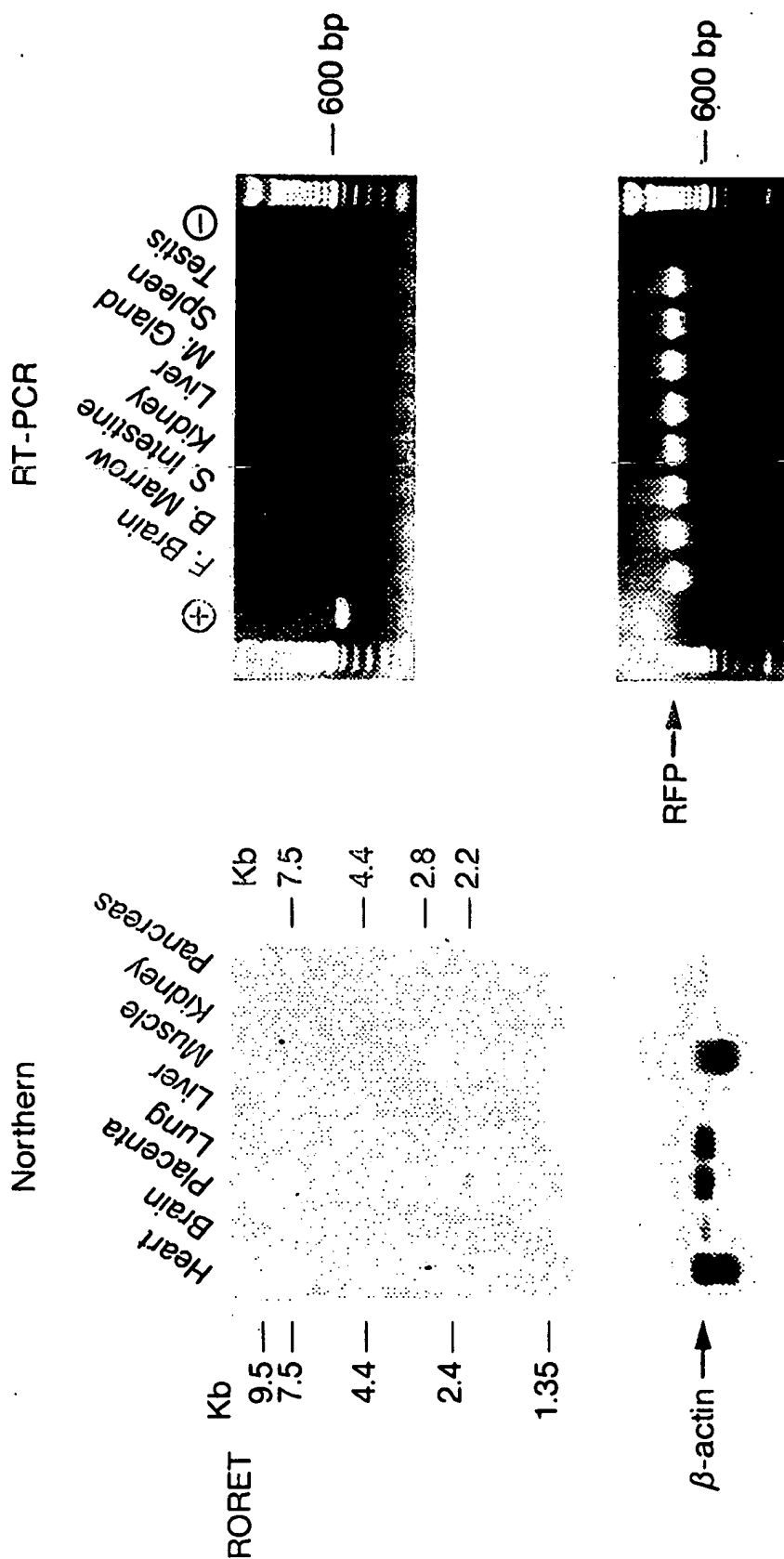
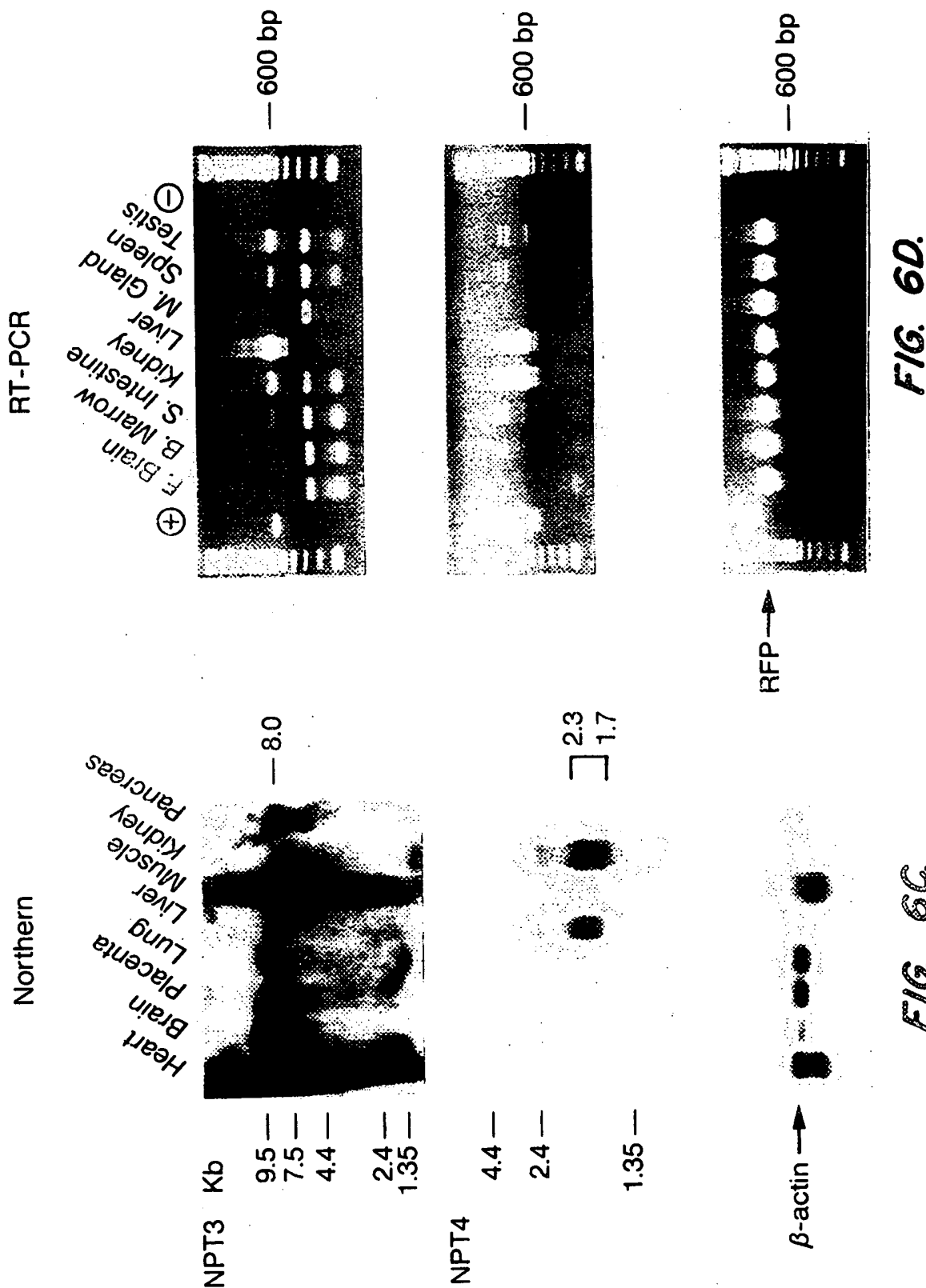


FIG. 6B.

FIG. 6A.

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Figure 7 (1 of 6)

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Figure 7 (5 f 6)

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481 GAGTAAATGG TAGTGTCAGT TATTGAACTG GGGAGAACTG GAAGGGATAA CAGGCTTAAG
541 GAGCACGTTT ATTCCTGTGT CTTGGAAGTG TTTAGGGTGA AAGACCTATT AGAGTTCTAA
601 ATGGAGATGT CAAGTGAAAA TGTGGCTACA CACATTTGCA TTTCAAGAAA AAGGTCAGGC
661 TGGAGATGTA AAATTGGAAG TTTACTGCAT ATAGATAGTC TTTGGAACCG TAGTATTGAT
721 GAAGCCATTA ATGAGACAGA ACAAAGACTA GGGACCAGAG CCAAGCTCCA AGTTTCTAAA
781 ATTTAGAGGA TAGTATAGTC TGGTCATTTT GAGGTGAATA CTTAATAACA GAACAATTTG
841 TTGAAGTGTA AATTTAGAGC CCTACACTTT TAGCTCTGAC TATTAACGAA TACAGGAAAG
901 AATGGATATG GTTATCTGCC TGGTGTCTGT GAAATAATTT AAGCCAGGAA GAGATCCTCA
961 CCAGAAACTG ACTATGCTGG CAACTTGGAT CTTAGATTTT CAGCCTGCAG AATTGTTAGA
1021 AAATAAATGT CTATCGTTTA AGCCACCAGT CTGTAGTATT TTGTTATGGC AGTCCAAGCT
1081 GACTAAGTTT TGGTACCCAG GCGTGGGATG CTGCAACAAC AAATACCTAA ACATGGGGAA
1141 GTGGCTTTGG AAATTGGTGA TGGGTAAAGG CTGGAAGAGT TTGAGGTTCA TACTAGAAAA
1201 AGCCAAATGT GAAGGGACTA TTGAAAGAAA TATGGACATT AAAGGCAATT CTGGCAAAGG
1261 CTCAGAAAGG AAGAGAGCTG GACAGAAAGC TTCCATTTTC ATAGAAACTT AGATTTATAA
1321 CGATCATGGA TAGAATATTA AATATGCTGG TTAATAATATG GACTTTAGGC CAGGCGTGGT
1381 GGCTCACGCC TGAATCTCA GCACTTTGGG AGGCTGAGGG CACAGATCAC GAGGTCGGGA
1441 GTTTGAGACC AGCCTGGCCA ATATGGCGAA ACCCTGTCTC TACTAAAAAT ACAAATAATTA
1501 GCTGGGCATG GTGATGTGCT TCTGTGGTCC CAGCTACTCG GGAGGCTGAG GCTGAAGAAT
1561 CGCTTAAACC CGGGGGGTGG AGGTTGCAGT GACCCAAGAT CACACCACTG CACTCCAGCC
1621 TGGGATACAG AGCAGGACTC CACTCCCCC GCCACACACA CACAAAAAAT ATATATATAT
1681 GGACATTAAT GTCAACTCTT GTGAGTCTC AGATGAAAAT GAGGGCAGG TTATTGAAAA
1741 CTGTAGAAAT CACTGTTCTT GTTACAATGT GTCAAGAACT TGGCTGAATT ACGCTGTAGT
1801 GTTTACTGGA AAGAACTTAT AAGCAGTAAA ACTGGATATT TACCAGAAGA GATGTCTAAG
1861 CAAAGTATTG AAGGTGTGAT TTAGGTCCTC CTTACTGCTT AAAGTGAAT GTGAGAGGAA
1921 AGAGCCGAAA TAAAGAAGGA ATTTTAAAGC AAAACACAAT CAGAACTTGG AGATTTGGGA
1981 TAGATTTCTC AATCTATATT GTAAAAATTG AGAAAGTTTT TCTTGAAGAG GTATGGTTGA
2041 ACAATGTTTT CTTTTCTTT TTTTTCTTG GTTTTATTTT TATTTTTATG TTTTTTGAGA
2101 CAGGGTCTGG CTATGTCATC CAGGCTGGAG TGCAGTGGCA CAATCTCAGT TCAGTGCAAC
2161 CTTTGCTTTC AGGCTCAAGC AATCCTCCCA CCTCAGCCTC CTAAGTAGCT GGGACTACAT
2221 GTATGCACCA CCACACCCTG GCTAATTTTT TGTGTGTGTT TATAGAGATG GGGTTTTGAC
2281 ATGTTGCCTA GGCTGGTCTC TAACCTCTGA GCTCAAGTGA TCTGCCCTCC TCAGTCTCCC
2341 AAAGTGTGG GATTACAGGC GTGAAACACT GAGCCTAGCC TGAACAACCA TTTGATAAAG
2401 AGATAATGGG TGTGACCCAA GGATTTAATC AGCCATCTCA GCAGAAGCCA GGAAGAGAGA
2461 TGGGATTATT CCAGCAGAGA CACTGCCAAT TTAACATAAC GTAGGCAGAG AAAACAGAAA
2521 GGAACAAAGG AAGGTGTGCG ACTTTTGA TTTCTATAGAA CAGGATCATA GAGCTACCTG
2581 GCTGTCAATG TGTACTATTC TTTAAGAAAA GGAAAGACTG ACCCACCAAA GGCAACTTAC
2641 AAGATCACTA GGGCTGACTC TTTTGTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCAGGTT CAAGGGATTC
2761 TCTTGCTTFA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCGAGT
2821 AGCGCTCCTG CCACCCTTG CCCAGCTAAT TTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAACCTCT GACCTCCAGT GATCCATTCT CATTGCCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC
3121 CCACCAAAC GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241 TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTTGG ACTTGATTAG GACACATTAC
3301 ACCTTCCTTC TTTCTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361 CATTGTACCT TAGAAGCATG TAACATTTCT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421 TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTAG ATGATTTTTT
3481 AGATGACACT TTGAACCTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541 TGGGATGGAA TAATTTTTTT TTTTTTTTTG AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601 GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGTTTT ATGCCATTCT
3661 CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721 TTTTTTTTAT TTTAGTAGAG ATGGGGTTTT ACCGTGTTAG CCAGAAATGGT CTCGATCTCT
3781 TGACCTTCTG ATCCGCTGTC CTTGGCTTCC CAAAGTGCTG GGATTACACG TGTGAGCCAC
3841 CATGCCCGGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901 GGTCAAGGAC AGAATGTTAT GGAATAACT GTGTCCCCCA AAATTCATTT ATTAACCC
3961 TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AAATAAAGA
4021 TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGAT GAGACACTTA
4081 GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATACA AACACACAGT GAGATGGCAG
4141 CCATCTGTTA GCCAGGAACA GATTCTCACC ATAACTATG TTGGCACCTT GATCTTAAAC
4201 TTCCAGGCTC CAAACTGTG AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGAAA
4261 AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTATGGCA GCCTGAGTAG
4321 GCTAAGACAA TGAAGGATGT GGTAAACTT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381 AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441 CATGTTGGCT CCTTTACTCT GCCCAAATA CAACTCAAAC AAACAAGTGT AATATAATAA
4501 CATCCAATGA AGTTCTGACA TTTCTTCAAC ATGAGTACAG TAATTCAATG CCAGAGAATT
4561 CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621 TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681 GCATTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741 CAACATGGTG AAACCTGTC TCTACTATAA ATATAAAAT TAGCTGGGTG TGGTGGTGCA
4801 TGCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861 GGTGCAATG AGTGAAATC GCACCAGTAC ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921 AAATAAATAC ATAAATAGA TTTATCAGTT TATCAATAAT ATAGTTTTCT TTTCTAGGTG
4981 TAAATATAGG TAATGACTGT CCTTTAGTAC ATTTTCTCAT GATGCTCTC TACTTGGTT
5041 TGGTACAATA TTAAGTATTG AAATAAAATA GAGAATCCTG TCGCTACACA TGAGCACTTA
5101 TTCCATTGTC TCATCTCCAA TATGCACGGG AAATTCTCAA ATTGCTAATA ATCTTGTAAAC
5161 ACACATGCAT TATATTCAAC AGGAATATAT AAATTTATAA TTATAATTTA GGATCAACAG
5221 ATGACAAACC TTTAGAAGGT TTGTATTTAA CCTTAAATA TAATTTTTTA AAAATTGGTT
5281 ATAAATTTT TAATACTTTT TTTTTGTGA CCTCAAGGGG AAAATATAAT TCTTATAAAA
5341 GTTCAAATGA TTTACAGAAT ACAAAGTG AATAGAGATG ATGAATGAAT TAAAGGAAAG
5401 GATATTGCTA CATAGATTG GAAATTTAAA AAGGGAAATT ACGATTGTTG ATTTTGTGTT
5461 AAAGTATCT GCTTTGTTCA AGATACCTTA TGTACCAAAA AATGATTTTA TCTCAGCCTC
5521 ATATCTCAGT AAATTCCTGA GACAACTTT AGTCCCTGGT GCCCAGGTGC CTTTGGTAAT
5581 TGGGAGACCT CTAGGTTTAG CATCCTCATC CACTCGCCCC AATTTAAATA GTCCTCCCCA
5641 GGGCCATTCA GGCAAGGGAG ATGAAAATT GCTCAAGAGT TGGAAATCAA CTGAAGCTAC
5701 CGAAATTCAT TGCTCAATAG ATAATTTTCC CTGGAAGTAA CTAGGGCTTT TGAATATAAT
5761 AGTGGGCATT TCAAAGTAGA AGGTAAAGTA TTTTGGAGAT GAGGAGACAG GACAGAGCTA
5821 CGAGGAATGT CCTTTGCTTA GGGACTAGGC TCTTAGCAGT ACCTCTTAGG TAAGAAGCTG
5881 TTAAGTGGCA CCTTCTGTGT TTCTCTGAAG CTCCCTTTCG TTAGGGACTA GGCTCTTAGC
5941 AGTACCTCTT AGGTAAGAAC TGGTTAACTG ACACCTTCTA TGTGTCTGAA GCTCCAGAA
6001 CAAACTGCCA GTGAAATTTG GATTTTGGGA ATATAGTTTC TTTTCTTGTG TTACTTTTTG
6061 TTTTGTGTT TTTTGTGAG AGTCTCACTC TCACTGCAAC CTCCCCCTCC TATATTCAAG
6121 TGATTCTCTT GCCTCAGCCT CCCGAGTAGC TGGGACTACA GGCGTGCACT AGCATGCCCA
6181 GCTAATTTTT GTATTTTTTA GTAGAGATGG GGTGTTT TTTTGTGAGAC GGAGTTTCAC
6241 TTTGTGCCCC AGGCTGGAGT GCAGTGGCAC GATCTGGCT CACTACAACC TCCACCTCCC
6301 GGGGTTCAAG TGATTCTTCT GCCTCAGTCT CCTGAGTAGC TGGGACTACA GGCGCTACA
6361 GGTGAACACC GCCACACCTG ACTAATTTGT GTAGTTTAT TAGAGATGGG GTTTCGCCAT
6421 GTTGGCCAGG CTGGTCTCAA ACTCTGACC TCAGGTGATC TACCACCTC AGCCTCCCCA

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6481 AGTGCTGGGA TTACAGATGT GAGACACCAG ATCAGCCTCA GAAGACATTT TCTATTGGAA
6541 AGAGAAAAACA CTATTAGCAA CCTATTAGTC TAATATTTAA TACTTAATGT CTTCTTAGT
6601 AATAAACCAA CTCTCTACAA CAAAGTGCTT CCTGGCTGCC TAAGTCATTG ATTCATTGAG
6661 TTCAACATTT TCTCAATGCC CAACAGCCAA GTGTCTCTTG TATGCCAAGT TCTATGCTGA
6721 TTATCAGTAT TTGAATAAGA GGGGGTCTAC ATCTTAAGTA CTGCTTAAGA TGAAAGCCTC
6781 TAGGTTAACA AACTTAACAC AATGTATCAT TCACTACTAA ATAGACCGAA TACAAAATCT
6841 TGTATTGGGA GCCCAGAGAG AAGAATTGAA ATTCAAGTTT TCTCTCTCTC CTTTTCTCAC
6901 TCACCACAAT AAGTCAGTTG CACCAAGTCT TGTAGCTCTT TACTGAGCCA TGTTTTTCAG
6961 TGTCCCTTTG TTTTATTTGC CACACCCTAA ATAAAAATTG TACTGGCTTT TTTTCCCTGG
7021 GTTTACAGTA TTAATACATT GTCAAGATTT ACCTCTTCGT GTAGATTCCC TGGGGAAAAT
7081 TACCTTTCCCT CCTTCCCTTA AATTCTTCAG AGGTTAGAAA GCCATTAGTA ACATTCTGGT
7141 ATGTGGACAA AGTTTACCCA TTATGTATGG ATGTTTTACT CTTTCTATTT TTCTGACAAT
7201 AATCTCTTAA GGAGGTGTGG TTATAGAATA GTCAGCTGTT ATAAGTACTG TTTTCCTGGC
7261 CTTACAACCTT AAGTTCTTTA AGCTGTTTCT TAGTTTGCTC ATCTCAAAAT TCGGAATAAG
7321 GATAAAACCT ATCTCTTAGA TTGTTGGATT AAATGAATTA ACATACTGGA AGCTCAGTAA
7381 ATGTGCCTGG CACACAGTAG TGCCTAATAA ACCATCTCTC TTATTGAGCC TGTTTTCTGA
7441 TTTCAGAATC TACACTTGCT GAGCCAGGTT CTTTTCATTT CAAGGTGAGC AAAAGCATAC
7501 AAGGAAGAGA TGGAGGTAGG AAGAGATTAA GCCCTAGGCC AAGGTCACAC ACCGATTGGG
7561 AGCTGGAATC AAAGGCAATT TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCCA
7621 TTCTAACCTT AGGATCGAAA TTCTCGGACA TACAGGAAAT GCTGGGGGGG GAAAATCCGG
7681 TCTTCTCAGC CCAAGAGCCA TGTGAAACCA GACCTTCAA TCTGATGATT CTCAGCCCAG
7741 CTGCCCATTA GAATCGTTGT AATTTAAAAA TACCTCGGA AAATTCTAAT ATGTGGCTAT
7801 CAAAGGTGAT CATTTGCTTT TATGCCACTT TGTTTTCAAC CAAATGGGAC ATCCAACCCT
7861 TTTCTTTGA GAGTAGTTGT AGGGAAAGGA GGGGGTGGAG GGAGGGAAGA GCGGAAAAGG
7921 CTGGATCCGC CCTGAGCCGG TGTCAGTATC TGGGAAGTGG GAGGCGCGTC AGCAGTAAAC
7981 AGCTTCTGCT AGGATTATTA TCTCTGCCA CACACTCGGA TTTGAAGGCT CCAAACGAAA
8041 CAATGCAAAA CGCTTCAGTG GAGTTCAGA AGCGTTAGAC TAAACGACTG GGTCTGTTTG
8101 GCCAGCTGTA GCAGCTGGGC GCAGATGCAT AGGCAAGACT TAGCCCGCCT AGACTTTTCT
8161 GCCCATTTAA TTCCGATCAA AGCAGAAACC GGCCGGGCGC GGTGGCTCAC GCCTGTAATC
8221 CCAGCACTTT GGTAGGCAGA GGCTGGCGGA TCACCTGAGG TCAGGAGTTC GAGACCAGCC
8281 CGGCTAACCT GGTGAAACTC CGTTTCTACT GGTGGCGGGC GCTTGTAATC CCATCTACTA
8341 GGGAGGCTGA GGCCGGAGAG TCGTCTGAAC CCGGGAGGCG GAGTTTGTAT GCAGTGAGCC
8401 GAGATCGCGC CACTGCATTC CAGCTTGGGC AACAGGAGCA AAACCTCCGT TCAAAAAGC
8461 AAGCAAAACA ACAAAAAAAT GCAGAAACCG AGATCCGGAA GAAAACCTCG GCGAGATTCA
8521 CAGAAATCCAG GAAAATAGGT CTCTAGAAAT TTGTCCATGG TCCCAGATCT CCATTTCTTG
8581 TGGGTGGGGC AGCTGTTACC AGATCCCTAG AAGCAAAGGT TTTTTTGGGG GACCGTGTCT
8641 CACTGTTGCC CAGGCTGGAG GGCAGTGGCA CGATCTCGGC TTAATAACAAC CTCCGCCTCC
8701 CAGGCTCAAG CGACTCTCCT GCGTCAGCTT CAAGAGTAGC TGGGATTACA AGGTATGTGC
8761 CACCACGCCC AACTTATTTT TTTATTTATT ATTTTATTT AGTAGAGAGG TGTTTCACCA
8821 TGTGTCAGG GTTAGTGTG AAGTCGTGAC CTCAGGTGAT CAGCCCCCTC GGCCTCCCAA
8881 AGTGGTAGGA TTAGAGGGGT GAGCAGAAAG CAAAGGTTTT TGAGTGGCCA CAGGCCCCAC
8941 TCTATTTCTT TTTCTGCCTG TAATGGCAAC CTAGACGCTT GAGCTTCTTA AAATACAAGA
9001 GTAAGTTGCA TGTGAGGCAC CGTTCTACAT TAGGGACATT AGTCTGTTTT ACAGACACCT
9061 TTCAACTCCC TGGTTAACTT TTAGGTAATA TACTCTGCAC TTTAGCAGGA ATGGGACCTA
9121 TAACTCTCAC AGAATTAGGA AAGTAGGCT GCCTACAGCC TAAATTGAGA AAAAAATAGA
9181 CGGGGGACTA GTCCGAGGAC CAAACAAGGT TACCAACACG TTAGAGTTTT GCCTTCAATT
9241 TACATTTTTA AAGTAATCAC AACGAAGTGT TTAGATCACG AGGCATCCCT GCATGTAAAC
9301 TGTTAGGCAC TAACTATGGT CGATCTTACA AAGCATTAAC TAGAATATTT CTTTAGAGTA
9361 TGATAGTACG TAACTGACCT ACTATTACAT ACAAACAGAC CAACCTTTAG TAACAGCGCT
9421 CCCCCAAAAC CGAAAAGCAG TAATACGCTT TGCTCAAGGT TGGCATAAAA TTAACCTTACC
9481 TTAGTGCCCT TTTTCTTCT ACCTACAAGC AGTGAGGTTA GCTCTTCTT TGAAACGGTA
9541 GGGGGGCTCT GAAAAGAGCC TTTGGGTTTG ATAGCGTTTC CGGGAGCTCA GATACCTGTC
9601 AAATCACTTG CCCTTGGCCT TGTGGTGA CTGCGTCTTC TTAGGCAGAA GCACGGCCTG
9661 GATGTTAGGA AGGACGCGCG CCTGAGCAAT GGTCAACCCG CCTAGCAGTT TGTTGAGCTC

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9721 CTCGTCGTTG CGGATGGCCA GCTGCAAGTG GCGCGGGATG ATGCGAGTCT TCTTGTGTGC
9781 GCGAGCCGCG TTGCCGGCCA GCTCCAGGAT CTCGGCGGTC AGGTACTCTA ACACCGCCGC
9841 CAGGTACACC GGCGCGCCTG CCCCAACCCG CTCTGCGTAG TTGCCTTTAC GGAGCAGGCG
9901 GTGCACTCGG CCCACCGGGA ACTGGAGACC AGCGCGAGAA GAGCGGGATT TCGCTTTGGC
9961 GCGAGCTTTG CCTCCTTGCT TACCACGTCC AGACATTGCA ATCAGACAAA AATCACCAAA
10021 ACCAGCGGCC TAAGCTCACG AGAAAACAAA CAAAATCAAG AAATATGTAA AACATGGCCG
10081 CTTTATAGG TAGTTCCTGG GGAGTAAATC CGACTTTTTG ATTGGTCGGT AGCAAATGCT
10141 AGTCAGATAG CCAATAGAAA AGCTGTACTT TCATACCTCA TTTGCATAGC TCTGCCACG
10201 GATGACAACT GTGCAGTTTG TCTTCCAATT AACTAAGAGG TACTCTCCAT CCCTCATTAG
10261 CATAAAAGCC CTATAAGTAG CAGAAATCCG CTCTTTACTT TCGACACATT TCTGGTGTTC
10321 TAAGATGCCT GAGCCAGCCA AGTCTGCTCC CGCCCCGAAG AAGGGCTCCA AGAAGGCAGT
10381 GACCAAAGCG CAGAAGAAAG ATGGCAAGAA GCGCAAGCGC AGCCGCAAGG AGAGTTACTC
10441 TGTGTACGTG TACAAGGTGC TGAAACAGGT CCATCCCGAC ACTGGCATCT CTTCCAAGGC
10501 CATGGGCATC ATGAATTCTT TCGTTAAGCA CATATTTGAG CGCATCGCGG GCGAGGCTTC
10561 CCGCTGGCG CATTACAACA AGCGCTCGAC CATCACCTCC AGGGAGATCC AGACGGCCGT
10621 GCGCTGCTG CTTCCCGGAG AGCTGGCCAA GCACGCCGTG TCGGAGGGCA CCAAGGCCGT
10681 CACCAAGTAC ACCAGCTCCA AGTAAACATT CCAAGTAAGC GTCTTAACAC CTAACCCCAA
10741 AGGCTCTTTT AAGAGCCACC CAGATACCCA CTAAAAGAGC TGTGGCCAGA CGCCAAATTT
10801 TATTTGGCGG CGGAGGGGTA TTAGAATATA GGAAGTGGAG AGGGGTGGGG ACAAGTGTTC
10861 CAGCTTAGAG AGGGACAAAG GGTCTGAAC CCGAAAGAAG CCAGCCATTA AAAATGGCTT
10921 TGGGGTCAAT TCGTTGTGCT TAAATTTAAA ATGGAGACAA GCGGCCATTT TGCTAACTCG
10981 GCGTTCCTCG AAGAAACCGC AGGCTCGCTT AGGTTTCAGA CCCAGCTGTC TGTCCCTGTC
11041 TACGTCGCCA GGATCAACGG TTGCCGTAAT GTCATAATTT CGCCACCAGC TTCTAGCCAA
11101 TAGGCTGTCC TGTCATTTTA AATATTAACC AATCGAGGGA AAGCTGTTTT GAGACTCTGA
11161 TTTACATAGC GGACCGGAGT GGGAACCTGG GCAGTAACTG CCTAAGGAAG GACTCCCCCT
11221 CTGTTTTCTG GCGGCACACC TTCGTAGTAT ACTGAAGGGT GTGTCTCCTG GGTTCCTAAC
11281 TGCCCCGTA ATAGTCTTTT AACCTAATAT GCGTCAGTTT TGATAACAAC ACTAAGGCAG
11341 TACAGAAGTA AAGATGTAAG CACTGCGCCA GATGTTGCTT CATACATCTT ATTCTATTCA
11401 ACTGGTTTAT TCAAGATTCA AATCAAATCA AATTTTGCTT GAATCCCAGT GCTCAGTCAG
11461 CCATAAATGG TGTGTTGCCT GATTGAAACT TAAAATCTCC GTAGGGGGGT TGTAACATGC
11521 AGACAAGTTT GAAAGTTGCT TTAGGAGAAG CCAACTCTTA ACTGCTGGGT AAATGACAA
11581 GCCTTCGAAC ACTGAACTGA AGGCCAGTAA GGACTAGGCG CTGGGTGGGG GAGAATGAAG
11641 AGGAGACGTC ATTAACTTA GCACATACAC TGTATCTCCT AGAGGACTCT CCCTTCCTAG
11701 ACAACTGCAG GCCGCTTTGT GGCCTGGGAA ATTCCACATT CCCTTAAGTA TTTTACTCAT
11761 GGTCTTTTCC AGGTAAAGAT TTAAAGATGA AGGGTTAGAC GTAGTCTACC TATCTTTTTA
11821 TTCAAGTCTA GAACACGTTT TTAGCACCTA GAAGTTTGCT TTCTCCATTA AAAACCGGGA
11881 ATATACAATA AATAAAATTA GTGTTAAAGC AGATTTTAC AAACCTAAAT ACCATGTAAT
11941 TTAGGTTACA GTTATTTAAC ATAAGGACTG TGTGATCTTA AATCTGCAAT TTCTTTCACA
12001 CCTGGGAAAT AACTAAGGC CTGTCTTTGG TGCCAGACAA GGCCTTATAC TTGAACACTG
12061 CTGTGCAATC ACAGGCTGCC TTGCCTAGAT AACTTATCTG AGAAATTCTG ATGAGAAATG
12121 AAATTTCCAG AGTCCCTCAC AAGTAAATTT TTTTTCTTT TTTTTTTTTT TTTTGGAGAC
12181 GAAGTTTCTC TCTTGTTCCT CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACAGCAAC
12241 CTCCGCTCC CGGGTTCAAG CCATTCTCCT GCCTCAGCCT CCGGAGTAGC TGGGATTACA
12301 GGCATGCGCC ACGACACCCT GGCTAATTTT GTATTTTATG TAGAGACGAG GTTCTCTCAT
12361 GTCGGTCAGG CTGGTCTCGA ACTCCGACA TCAGGTGATC TGCCCGCCTT GGCCTCCCAA
12421 AGTCTGGAT TACAGGCTTG AGCCACGCG CCGGCTTAA ATGGTTTTTT TTTTTCTAT
12481 GCCTCTAATG GACCTGGTCA CTTATTCCCA TTCAGACTGA CCGCTCTCT ACCTGCCAAC
12541 TAACTAATCA GTGTAACCAA AATCTGCAA CAAAATTCAG TATTCTTTCC CGCCTTTTTC
12601 CCCTTCTCT TACATAGATT ATGTTTTTGC CTGTGTTAGA TGAAATAATT CTATTGCTTG
12661 TTCTCTCTT TGTACAAGTA CCCAGTAAGC AAATTATTAA CTTCTTGGTC ATTTATTTCT
12721 GAATTTTCCA CCAAGACAGT GTTTATGTGA GTCATACAAT AAGAACCAAC AGAAATGTGT
12781 GTCTTGGAAG CAGGTGTCT ATCCCTGGAC CTTTGAGTT TTCTGTTTAC TTTCTTTGG
12841 CTTTTGCATG CTAAAAGTTT ATCGTCCGCG TTTGTTTGT TGGTTATTTC TAATTGGACT
12901 TGGCTGATTG GTTGCATATT GGTGGCAGTA GTAGAATTG AATTCTGGTT TTCTGGTCAC

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12961	ATCATTAAAGT	GATTAGTCAG	TGGAGAGGAC	AGGAAATCTG	GTTTATTTAT	TAACTTTTTT
13021	TTGGGGTGTT	TTTGTGTTGAA	GATGTTGATA	TTCTCTGTGA	GGACACAGGG	TTAGAGTTGG
13081	TGTTTTCTT	TCTGACTTTA	CATGGGATTT	GATGTTTTGT	GCTTGATATGC	CTCTTTCCAC
13141	CTTCCAAAAC	TTGTCTTTTT	TGAGTCCAAA	TAGTTGTCTGA	TATCTGCAAA	ACCAGTATTC
13201	CTGTGTTAAG	ATGATATGAA	TATAAAATGG	CTGCCCTGTT	ATAACTTTTG	ACTTTAAGAA
13261	AGTGTTAGGA	CTAACAGGAG	ACAAAAGGA	AATCAAGGAA	ACCGAATGTC	TGGTCTCAAT
13321	AACTGCTATG	GCAGAGGCTC	TACAGCTTAT	TATTAATTTT	AGTAATTTCA	CATTATTGCC
13381	CCTTCACGTT	CTTTAAGTAA	GGTTAGAGGA	CAGAAGAAAC	ATAATGTTGT	TACAAATTGG
13441	ACTATTGAGT	CAGGGAAAAA	AAAGAGTGCT	TTCAATATCT	GAATAAAACA	AAGATTTAAT
13501	ATTTTCTAAA	CCTTAACGAG	TTTATTGTAA	GGGATGTGAT	GCTGGAAACT	AGGAAACTAG
13561	AATTTTCTTC	TAAACTGAGA	ATCAGAATTA	TTCATATTCT	CAGCAGTGGT	GCCACCTGAG
13621	GGACTTCTGA	TCTTAATTAC	ATACTTTTAT	TTCTTTAACT	GATCAACATG	CTAAATAGAT
13681	AACCTATGGC	TCTGTTTTTA	CCCACTTTAA	ATTCTGTTCT	ATTAGCACGG	TTAGCTTTCC
13741	TAATTGGCAA	TAAGATTGAG	ACTATCTTTT	TTTTTTTTTT	GAGACAGAAAT	TTTGCTCTGT
13801	GGCCAGGCT	GGGGTGCAGT	GGCACAATCT	CGGCTCACTG	CAACCTCTGC	CTCCAGGGTT
13861	CTAGCAATTT	TCCTGCCTCA	GCCTCCCCAG	TAGCTGGGAT	TACAGGTGCA	CCACCACGCC
13921	TGGCTAATTT	GTGCATTTTT	AGTAGAGATG	GGGTTTCGCC	ATGTTGGCCA	AACTGGTCTC
13981	GAAGTCAGGT	GATCCAGCTC	GGCCTCCCAA	AGTGATGAGA	TTACAGGCGT	GAGCCACCGT
14041	GCCCAGAAAA	GACTATCTTA	TTTTATGAAT	TTAAATAATT	GTGAAATTAT	CCACTTAAGG
14101	GAATTAATAA	ATTATAATGT	AATCTTAAAT	TTTAGTTGGC	TTACATAAAG	ACTTAAAATA
14161	CATCAATTTA	AATAAAACT	CATTTGTCTA	AAAAAAAATC	AAAAATTTTC	CTTGTGCTTT
14221	AAATGTGCTA	CCTCTTTAAG	TTCTAATTAA	GAGAAAAAAA	GTTTAACTGT	GAGTTTCATT
14281	AGTGGTCTTA	GTTAACAGCT	TAAAGTATTT	TGTAAAAAAA	ATACTTCACA	ATTTTTAAAT
14341	AACTTAAAAA	TATTAATACC	TCTTTTATTA	GGTTTTTTTA	ATAAGGAAAA	TATATAATAC
14401	ATCTAATCAA	GATTTTTTTT	GGACAAATTG	GCTTAATAAT	TTCATTTTAA	AAATGGCTTC
14461	TTTATTCTTA	TACTGTAAAA	ATAATATTAG	CAGAATATTA	TAGTATACAC	AAGTTTAGGG
14521	TTCATATTCT	AAAAAACAAA	AACAAAAGCT	AATTTAACTT	GCATTTACTA	AATTTCTTCC
14581	ACTAGTTGTA	CTGGTTACAT	GAGTTAACAT	CACTTTATTT	ATTATTCTAA	AATTGTAAAT
14641	TATTCATTGA	ACCAAATTAA	ATGATAATAG	ATAATGTCAT	TTTTAAAAAT	GGAATTAAT
14701	TTTATGTTAC	TAATTATAAG	GATTCAATGT	GTGAGCTTAA	GTACTGAGTT	CACAGTGTAT
14761	GATAACTTTA	AGAATTTAGG	TGAATATTAT	TAAATTGAGT	AAATTAATTC	TCAATCTTTG
14821	GATACCTGGA	CAATTTCTAA	ATTGGAGGGT	ACAAAATACA	AATCACAAGA	AACAGTGTAG
14881	TTTTATGCAA	ATAACATTTT	TACACAGTTT	AGAATAACCA	TTGATAAACA	GATAAGAGAA
14941	CATATGATTG	CCTTAGAATA	GATACTGTTG	CTTTCGCCAC	TTTAGATTTG	TAAATCACGT
15001	ACTGTATACG	TGTGGGCGTA	GAGGACCATG	CAGGTTTTGG	ATGACTGCCT	CTGTTTTTCGT
15061	CATGCCTATG	CGGGAACACA	ATTGCCTGCT	TTGTTTAAGG	GCTATGGTTA	ATCCAAACAG
15121	CTCTGACTCT	ATCAAGTACT	ATAGCTACAG	AGAAACACAA	GTAAGCATTC	GAGATAATGA
15181	CTACCTTGAG	CCTTTACTTA	TTTAAAAAGT	TGTTACTGTT	TGTTAATGTG	GTACATTCAA
15241	TTTACTATGG	ATTGTCATCT	TAAATAAAGA	CTTCAATCTT	TTTCTTATTT	TTATATAGCC
15301	ATGATTTATA	TTCATATCTT	AATGTAATAA	CCAATCTTCT	CTGACAACAT	TATAACAATG
15361	CTGGAACCTC	CATTTTCAGT	ACTTCAAACA	ACAAATACTG	CTTTTATACT	TCAGAGCAGA
15421	TGGATATGTG	CTTCCCAGTG	TAAACACATT	TGGAATCTCA	CTGAGAAATA	CACTATCACT
15481	AAAAATACAG	TTCTGAGATT	CATTAAAAGA	CCTCCAGAAT	TCTGGAAAGTA	GGAAGTTTCC
15541	TCTTCAAAGT	CTACAGAGGA	AGATGAGGTC	TGAAATAGAC	AGCTTCTTCC	TTCTTTTACC
15601	TGTGGTATTA	TTCTGTTTTG	TCCTTTTCTC	CATTATCTGT	CTTCCAGTG	ATGAAATTTT
15661	GATCTGGCCC	TCCCAAGTAT	TAAAAAACAA	GCAAATAAAC	AAATCTCAGT	TATATTTTAC
15721	TAAGATATTG	GCATGCTAAC	TTTTTGACAGG	TTTGTAACAA	GGACCTTTAT	AACTTGACTA
15781	AAAGTTCCTA	AATAAGAATA	TTTACTAGAA	AATTTATTTT	TGCCTGTGGC	CCACATTTGA
15841	GTCAAATAA	TCAATTAGGA	AAAATGAACT	TGTTTAACTA	AAGTTGACCA	AACTGATCTT
15901	TGACCAAAC	GATCTTTGAG	ACCTATTTCAT	CTAAGACAAG	CCAATTAAAT	TCTTGAGAC
15961	AATTTGTACT	TTAAGGAATT	CTTATAATAT	TTGTAATTAC	CCTCATAACT	TTTTTTTTTG
16021	CCCTACTTCT	GTGCTTCTCT	AATATGCAGA	TTATTAAATG	TTGTTACAAA	GCCATTGTCA
16081	AAAAAACAAA	AAACAAAAAA	CTAAACAAAC	TCACATGGTT	AGACTTGCTC	CTTTATGAGA
16141	TATTTTTTACC	AAAAATGGAG	GAGTTGAAAA	ACTCTGGTGC	CAGAAATCGT	GAAGACATGG

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16201 CCTACCTAAC ATGGAATGT TGGTTGTCAG TGGAAAATAC TACACAGAGA TAGCCATAGT
16261 GCTGCACAGC CAATCTTAAG TGTTTCTAGA GAATCACTAA TTGTTTCTAG AGAATCACTA
16321 ATTGTTTTCT TTTAACATTG TTGGTTTATA CAAGAAGAGA GTATCCATAC TAAACTCTTT
16381 TCTACTGAAA ATAATGTGCA AACATAACAT CCTATTCCTA GACAGTTTGT AGTTTTTTTTT
16441 TCCCATTTCT ATTTTATAAA TCATCTTTT AAAAATACTTT GTTGAGTGAA ATCAGTCCAT
16501 TGCTTGATAT ACCTTGAGCA CAAGTAAATA GTATGCCAAA AATTAAATGT CTTTCAGTCA
16561 CAGTTTGACA AACTCAACTA CCCTGAGCCT ATAGAGTGGT AATAATTGCC CTACTCATAA
16621 AGATGGGGTG AAGATTAAAT GAAATAGCAC CTATAGAACA CTAGTTCCAG ACGTGGTATC
16681 ATGCTAGTAA AATGGCTGCA CAGCACTGCT CAATGATGAC AAAAAGTGAA GCTTCTGGAG
16741 ACAGACTCCA AGTTTGACTC CCAGATCACC ACATATAAGA TGTGGGACTC TGAGGCAGGT
16801 CATTTAATCT CTCTGTGCAT TAGTATCCTT CTCTATACCT TTACAGTGAT GGTAAATAGCA
16861 CCTACCTTCT AGAAGTATGT GAAGATTAAA GATCCTTAAT GCATATAAAC CACTGTGTTT
16921 ACTGCTGTTT GACAAATTTT ATTTATAACC ATCTTTACGC TCCTAAAAGG ACTTGAAGCA
16981 GCTTATGACT GAAGACTTTG GTAGGAGTTG GCCTTCTATA AATTATAAGA ATTTCATAAA
17041 TTATTTGATA TGAAAATGCC AGTTGATCAT AGTATGTTA CCGGGGTCCA ACAGGTTGAG
17101 AAAAAATACA CTTTTTTTCC CTGAACATAT GAAATTAGCT CTCTAGGCAT ATTCCTAAGG
17161 ACTTAAAGAA TGATAACTAT CATTCTCTT AAATCTTCCA GATTTGGAAG GATATATATA
17221 TTCAGCATAT TGACAGACAA TCCCAGTCTT CTAAATTAA AAGACATTAA AAATTAGTGA
17281 AACTTTTCTT ACCTTTAGCC TGTGTAATCC TGGATGACCA AGCATAAAAT TAAATTGAGT
17341 AGAGTATACC ACTGTAACAT TTCCTGAAAG GTATTCTAGG CTCTGAGTAA TTTCTTTGGG
17401 GTCTGAAGAT CAGTTTGACA TATCCTCAAG TATCATGAGT TCATTATAAT TAAGAAAAAG
17461 AGAGTAAATC TGGAGAATGA GCCACTTTCT TACTACTCCT TGACCTCAGT TCTTTTTTTC
17521 AGAGACAGGG TCTCACTTTG TTGCCCAGGC TGCCAGGCTG GAGTGTAGTG GCGCAATCGC
17581 ATCTCATTGT AACCTCCACC TTCTGGGCTG AAGCCATCCT CCTGCCTCAG CATCTGAGT
17641 ATCTGGAACC ACAGCAGGTG CACACCACCA TGCCAAGCTA ATTTTTTAAA AAGTTTTTTG
17701 TAGAGATGGG GTCTTACTAT GTTGCCAGG CTGGTCTCAA ACTCCTGGGC TTAAGTGATC
17761 CTCCTGCCTC AGCCTCCCAA ATTGTTGGGA TTAGTAGTGT GAGTCACTGT ACCCCGCCCC
17821 ACTTCAGTTC TGAGGAGGAA AAAATATGTA ATAATAATGG GACTTTGGTT TGCTGATTTA
17881 AAGATTCATG TAACCTTATC ATCCAATGCG CAATTTGTAG AATAATTAAT AGAGACATCT
17941 GGTCTCATGT TTCTACAGTT GCTCATGCCT TGATAGTAGA TCTCCTTGCT GCTGGCTCAG
18001 AAGGGTAAAA GAGCAGAAAT GATGGGGCTT CTCTCATTCT ATGAGGAAAT AGACCTATGT
18061 AGAGGAGGCT ACCTGTGGTA AAACCTTATC CTCATCACTT AAAATTCTAG GCTTATTCTC
18121 TGACCATATC AAGTTTTCAA ATGGTAAAAAG AATTGGATTG AAGAGAAATA TGAATAAACT
18181 TTTGTTTTCA CTTTTCTCCC TCCTCTCCCC CCATTCTCCC TTCC.TTATT TTCTTGCTCT
18241 TAGTTTTCTT TTCACTTTTT TGTCTACTAT TATTTGCCCA AACTCAACTG TAGGCTAGAA
18301 CAAAAAATAA TTGAAAATTA AAATGTGCCC CTTTGTGTTG TAGACTTGCT TAAACAATTG
18361 GGGTAATGAA CCTTGGACAC TAGATTTTAA AACACACACA TTTGAGCTTC AGTGCACCTGA
18421 AATAAATATA TTTTAAACAA TTAATAAATA AAATTGCATG TTTAAAAAAT CTGCAGAGAA
18481 CAATACACGT TGTGAGATCT TGAATGGAAG GAAACTGCT AGCCTCAAGA GTGGATCAAA
18541 GATGCTCAGC AGGCAACAGA GTAAGAGCAT GTTGGAGGGT TTAGAGAGTG TGCTCAGGGT
18601 TCTAGGCTCT AAAAATCAGA CAGTCCCCAC GGCCTGGCCT TCGTCGCTGT ATCTTCTTTA
18661 TGAAAAACAC TAAGTCTTTT TCCTCACTGG ATAAATTTTT ATCCTTCAAG TTTAGATCAA
18721 ATGGAACTTT AGGACACTGA CTAGGTTACA TTCATCTTTT AAGAGCGTAC AGACATTCAA
18781 GGGCTAGAGG ATGTGGGTTT ACTGCACAGG CTCATTATCC AACAGCTGTG CTACCTGGGA
18841 AACTTAACCT CTCTGTGCCT TAATTTCTC ATCTATAACG CAGGGAGAAT GACAGTAGGT
18901 ATCTCATAAG GTTGTGGA CACTAAATG CATTGGTATC TATTGTGTAA AGTGCTTAA
18961 AACTGCCTG GCACAGAGCA AACATCCAGT GAACTTTAGC CATCATCATT ATCATTTGTC
19021 TCAGAGTCAA ATACAATATC TCATATCTGA TAAATTACAG AAGTGAATCA ATCACTCTCT
19081 CTCTTTTCTC CAGGGGGAGA CAACAGCTTT TAGACATATC TTTTCCAACA GTCGTCCTG
19141 CTGGCACTG TTTTATCTTG CAAATAAACC AATGAAAATG AGTGATCCTA GAAGAAGATA
19201 AATGGAGGTA TTTTGAACAA TCAAAGAAGG ACAAATGAAC ACCTGGCTGA GAAAAATTAG
19261 CTCTTTTTTC TATGCATAAA ACTATTAAAA TATTCTTCAT AGAAATTTAT GACACAGGAA
19321 ACATAAAGAC AAAATTAAAA TAACTCCTAG TATCTCCTAT TCTTTTTATA TGTATATTAT
19381 ATATACTCAT ATTCATATAT ACATATATCT CACATCATGT ATCATATATA AAATAAATTT

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19441	AGGTGTCATG	ATATATATTT	AGATAAATAT	ACTTAGAAAC	TTTTTTATGG	ATGTATAATT
19501	TATGGATATA	TTGATAATTA	TGTATTTGTT	ATTGACTACT	TCAATTGATT	CCCATTTTTA
19561	TGCATTATAT	TATAGATTAT	ATAGCTCACA	CATCTTTGTA	CATAAATCTT	TGTTCAAATA
19621	TTATTTCCCTA	AGGATAGACT	TCATGAAGTG	GAAATACTAA	ATCAAAAGTG	AAAAACATTT
19681	TCTAAGGTTT	TTAACATATA	CATTGCCAAA	TTGCTATTCA	GGATCATACC	AATTTATAAT
19741	CCCAAATATA	TATGGAAATT	CCTGTTTTAT	AGCACTCATA	TTTACAATAA	ATTTTAAAAA
19801	TCACTGTTAA	CCTAATAGTC	CTTCAAAAGA	AAAAAAAATT	GAAATTACAT	TATTTTAAATG
19861	ACTCTATTAG	TGAGGGTCAT	TCTTCCCCTG	TTTCTTGTTA	GCCATGACCC	TATAAGAAAT
19921	AACTGCACT	GCAAAATGAT	AAACATGACA	TCAATCATT	CATGGGAAGG	CACTATATAA
19981	AGAATAATAC	CTTAGGTTAA	GGCCACATAA	ATATTTATCA	GGTGCCTTTT	CTGCGGAGGA
20041	CTCTGAAGGG	ATACTAACT	GCATTTAGCT	GCATGCAACT	GAAACTACTT	TTACCTACAT
20101	TGCTCTTAT	AAACATTATA	ACTACTCTTT	GAGAAAGTGT	TTACTATGGA	CTGAATTGTC
20161	TCCCCATCCC	CCCAAATTCA	TATATTGAAG	CCATAAACCC	CAATATGACT	CTATTCCTAG
20221	ACAGGACTTA	TAAGAGGTAA	TTAAGGTTAA	ATGAGGTCAT	TGGATGGGT	TCCTAACTGG
20281	ATAGGATTGG	TGGCCTTATA	AGAAGAGGAA	GATTCTGCAC	TTGGTCTTCC	AAATTAAATA
20341	ATTTATTTAA	AAGAAAAAAA	AAAAAGAGGA	AGAGAGGGAG	CTCTGCACAT	ATACTGAGGA
20401	AAGGCTATGT	GAGCTCTCAC	AGTGAGAAGG	TAGCACTCTA	CAAGCCAGCA	AGAGAGCCCT
20461	CAACAGAATC	CAGCCATGCT	ATACCCTGCT	CTGAGACTTC	CAGCCTCCAG	AACTGTGATA
20521	AAATTTTGTT	GTTTAAACCA	CACAATCTAT	GGTATTTTTT	TATGGCAGCC	CAAGCCAACA
20581	AAGACAGCAT	CATTGCTGTC	ACTTACAGAC	AAGAAAACTA	AGACTAGGAG	AGAGAAAAGT
20641	TAACTTGTC	CAAGGTCACA	AAAGCCAGAA	ACAAGTGAGG	TGAGAAGTTG	ACCTTGTCT
20701	CCTCAATCCA	AGGCCAGGAC	TCCTCCACTC	CACATGTAGA	TAGCCACCTC	ACAGTCAACA
20761	GCCAAATGTC	CACACCCCAG	AGTCAGCAAT	AGACCAAGAT	GTCTTACCAG	GAGACAAATG
20821	CCTCATCTTG	AATAAATATG	ATCTAACAAAC	TTACCCATGT	AAAACATTGA	ATCTCATGAG
20881	AAACAAAAAT	GCAAAGTATG	TAGAAAACCTA	TGTTTACCAC	TTAACTGACA	GTGATAAAAA
20941	GCTTAATGAT	ATCCTTATAG	TCTTGGAGGG	GTTTGTATAT	GTGGTGAAC	AGGTGCTCAC
21001	GCACTGCTGA	TAGACTGTAA	ATTGGTCCCTA	GAGAGAAAAA	TAAATAAACT	GGAAGGAGAT
21061	ATGCTGTATG	TTTACTTTTT	TTATGGAAAC	ATATGATATA	CCTGGAAATT	CGATTGACCA
21121	TGCACTTATT	TCTTCAATGG	GTATGCACAG	TTGAGCTGTT	CCCATGCACC	AGGCACTGTA
21181	ATGGGACAAC	TGCACATGAC	AGTCAAAAT	CTCAGTCTCA	TGAAGTCGAC	ATGCTCATGG
21241	AGAGGTGCTA	CCCACTAAAC	TAATATTTGT	ATATCAATTA	TGGATACATT	GGGCCACATT
21301	TACAGAAATT	CACCTACAGT	GGGTTACCAG	AAGGGATTTT	TTTTCTTGAT	TGGCAAGAAG
21361	GCTAGGCTGT	TTTGTTGGGG	GCTGGCAGGA	GCTGTCTAGG	CTGCCCAAGT	ATGCAGGTCT
21421	CTTCTATCAT	CCTGTGTTAA	CCATCTTCCA	TGTATCTTTC	AACCTCATGG	TCATCTGCAG
21481	CATGTCTAGG	GGTCATATCT	ATGTTCCATG	CAGGAAAAAA	GGGTAAAGGG	AAAGGGAAAGT
21541	AGGCATGTAC	CATTTTAATG	CACACCTTGG	TTTTCAGAAA	ATTTAAGAAG	AAAGACTTTC
21601	TGCTTTTCTC	TGACTATTCT	GTATTCTGGA	TTACAACGCA	ACAGAAACGT	CACCTTAAAT
21661	TCTAATGTTT	TTCTCTCCTT	GCTTTCAAAA	ACTGACTCAT	TAACCTCCAC	GTGGCTTGGA
21721	AAAATTATTT	CAGTCATCCA	GTAATGAGCT	GTTTCATAGAA	ATGTTTTGGA	CATCAAGTCT
21781	GTGTTGTTAG	CATTATACAT	GTAAAGCAAT	GAATAAAAAA	CAACATGATG	TGGGTAAATT
21841	TCTTTACTTA	CATATAAGTA	CTTATATACT	TATAGCTGAA	AAGAGAGGTT	GAAATGTCAG
21901	GTGGAACAGA	AATAAGATTA	CCTAGATGTT	TCTCCTATGG	GTGATTTTCA	GCTATGCTGA
21961	TCTTTCTTCT	GGGTCAGGTA	CTCCCAGAAC	TTCTTAATTA	AATGGTGGCC	CTGATCTTAG
22021	TTCTCTCTCT	CTCTTAGACA	TTTTCCAGGA	CTACAGAAGA	TGTGCAGTTT	ATAAATGAGT
22081	AGCAGAAACC	TACTGAACAA	ATTATTCAGG	CTCATCTGAA	CAGAGAGGAC	ACCTTCTCTG
22141	CTATACTCTC	TCAGTGATTT	CCCTGCCTTG	GGGTCAATTA	TTGTCTTGGA	CATTGATTTA
22201	AGCACATAAT	AATTGTTGTC	ATTGCTTATG	TTTGGAATTC	ATCTCCCAAA	ATAGATGGTA
22261	AATTCTTTAG	TTTAGAGACC	AAGTAAATAG	TAAAAAATAA	TTTTGTGTGT	GTGTGTGTGT
22321	TTTTTCTGTG	TCTCTCAGCC	CTGTAATAGC	ATCGTACTTA	CACCTGTTAG	ATTTTATAGAG
22381	ACAACTTTTA	CAAAACATGG	AATTATCTAC	ATACCCTTTC	TACAAAACAG	ACAAATTAAA
22441	TACTCAGTAG	TTGAACCAAA	AAAAGCAGTT	CAAATAAAAT	ACTTGAAAAT	GAAGAAATCA
22501	TTTGAACAGA	GTTAAAGTTA	ATCGTAAAAT	AATGTCTGTA	AAAATTATTG	CCAATCAAAT
22561	ATAAAGTTCA	AAAATAGTGC	TTGAAAAAGG	AAGAATCATA	TGAAAAGGGA	CTACTCATTT
22621	TAAAAATGTT	AGATATCAGG	AAAAGCCAAG	AAGTGAGTAT	GGTAAGAGTG	CTGTCAAGTG

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22681	AAACCCTGCT	AATCTCACTG	AACATGTAAA	AATCTGTAGA	TGCCTTTTATT	TTATTCACTC
22741	ACACACATAT	GTAGAAAAGAG	AAATATATGG	TAAACATTAA	AAAAACCAAA	TTAGAATGTA
22801	AAATTAATAC	TTTAAAAAAT	GGGCTGTATA	CTTTTCTTAT	CACCGGAGAT	AAGAATTTAT
22861	TATTTTAAAA	ATAAAGTTAT	TTTCTCTGTG	ACTGTTTCCA	TGACTTTGCT	ACTTAGAAGT
22921	TAGAGATGCC	AAAGTTTATC	TAAGAAAATG	TTTATGGAAA	TATTATTTCA	ATAATGAATG
22981	TTTAGAAGAC	TGAATTTCTT	GACTGGGCGC	AGTGGCTCAT	GCCTGTAATC	CCAGCACTTT
23041	GAGAGGCTGA	AGAAGGAGGA	TCGCTTGAGT	CCGGGAGTTC	AAGAGCATCC	TGGGCAACAC
23101	AGCGAGACCC	TGCAGCAAAG	TAAAAAGAAA	AAAGAATTGA	AAAAGGAAGA	CTGAATTTCC
23161	TTTGGGCAAG	TCATGTGACA	TTCTGTGCCC	TCAGTTTCTT	CATCTATAAA	GTTAATTCCT
23221	ACATTTTGGG	GGAAGGGAGA	GAAAACTTA	GGATAGTGAC	TGGCACAGAA	GAAGCACTAT
23281	ATACTATATA	TATGTGGATA	TCATTTGTTT	TTATGGTACC	ATTTTAGCTA	TCTAATGCAA
23341	AATATGAATC	TTTTTTTTCT	GGGCTTTAAA	TTATGGAATG	TAAGAATTTT	CTAAATTCCT
23401	TAATTCTGTG	TTAGTTTTAA	AGCAATGGAG	TAACGTATCT	GTCAACTTGT	AAATATAAGG
23461	ATCAACCTGA	TCCACAATTT	GACCCCTAGC	CACTAATATT	TAAATAGTAC	ACACTCAGAA
23521	ATTATCAAAG	GTCAGAGAAG	CCAAACAAAT	GTAAAAACAT	ACAGGTGCTC	AGAAAGATGC
23581	ACCTGTAATC	TCTCTAAGGA	GAAATATTTT	CCAACTGAG	TGACACGGTG	CTTTAGTGAG
23641	TTGTGGAATC	AATCTCATGA	TTTCCAACCT	AGTGTTCCTT	TAAAAATGAA	CTAGTCCACA
23701	GTAGAATATA	CTAAAGTGCT	GGTGCTTAAG	ATAGTATTGT	TTTCTGGAAA	AAAAAAAAAA
23761	ATTTTTTTTT	TTTGAGACAG	GGTCTCGCTC	TTGCCAGGC	TGAAGTGCAG	TGGCACAATC
23821	ATGCTCACTG	CAGCCTTGAC	CTCCTGGGCC	CAAGTGATTC	TCCCACCTCA	GCCTTTTGAG
23881	TAAGTGGGAC	CACAGGTACG	TGCCACCACA	CCCGGGTAAT	TTTTTAATTG	TAGAGACAGG
23941	GTCTTGCTAT	GTGCTTAGGC	TGGCCTTGTC	AACTCCTGGG	CTCTAGTGAT	CCACTAGCCT
24001	CAGCCTCCCA	AATTTATGGG	ATTATAGGCA	TGAGCCACCC	TACCTGGCCT	GTTCCCTGAA
24061	TTTTTTTTTC	TTTCAGGTGT	TTGTGCATAT	GTGTGTGTGT	ATGGGTATAA	CAGAGAGACA
24121	GAGAGAAAGA	AACTTTTCTA	TCTCACTTTG	CAATCAGAAG	TTTGAAGTCT	TATCTTTTGG
24181	CTTTTGTTTC	AGAAATATTT	CAAATGTAGA	CTCTCTCCTT	TACCACACTG	TCCCTTAGG
24241	CAAGGTCTTT	GCCATTCTTC	TGAGACTATT	GCAACAGACT	CCCACTTCT	GACTGTGGGC
24301	CCTTCTCAAA	AATGATTGTT	TATGCAATAA	ATCTAAACCC	AAGACAATA	CAACAATACA
24361	ACAAATTCTC	TGCTTAAAAA	CTTCCAATGT	CTGCCGGGCG	CGGCGGCTCA	CGCATGTATT
24421	CCCAGCACTT	TGGAGGCAGA	GGCGGGCAGA	TCACTTGAGG	TGGGGAGTTC	GAGACTAGCC
24481	TGGCCAACAT	GATGAAACCC	CATCTCTACT	AAAAATACAA	AAAATTAGCC	AGGCATGGTG
24541	GTGGGCGCCT	ATAATCCAG	CTAATTGGGA	GGCTGAGGCA	GGAGAATTGC	CTGAACCTGG
24601	GAGGTGGAGG	TTGCACTGAG	CCAAGATCAC	ACCATTGCAC	TCCAGCCTGG	GCAACAAGAG
24661	CAAACTCTG	TCTCAAACCA	AACCAAAACA	AACTTCTAA	TATCTACCAA	ATGTTTCACA
24721	CAAGTATTTG	GGGATCTTCA	CAAATGGCCC	TTATGGAGTT	TTCTTTTGCT	GAGACCCTAT
24781	GCTCTGGCCA	CACTAAACTC	ATTCAGCATC	CCAGAAAGGC	CTCAGCCTTT	GTGAGCAAGC
24841	TCTTATCTCC	AGGCCTCTCA	CAAAGACCTG	TTCCAGTAGA	AGCTCAGGGG	AGCACACTGG
24901	ACATTATTCC	AACAACCCCT	TCCCCACAGC	TATGCAGCCA	AATCTGCCAG	CTCAGTTAAT
24961	TAATTAAGCA	ATTCAGAGAT	GAGGGTCTGC	CCAGGCTGGA	GTGCAGTAGC	TGCGACCTCA
25021	AGCTCCTGGG	CTCTAAGTGA	TCTCTTTCAG	TCTACCCAGA	AGCTGGGACT	GCAGGCATGT
25081	GCCACCACAC	CCAGCTAATT	TTTTTTTTTT	TCAGTAGGGA	CCAGGCCAAC	CTAGTCTTGA
25141	ACTCCTGGCC	TCCAGCCTTC	CGAAGTGCTG	TAATTACAGG	CATGAATCAC	TGCGCCCAGC
25201	CAACCCGCC	AGTCTTGTTA	GACATGGGGT	CTGTAGTTTC	TAGTAGGTTT	TTGAGTCTAG
25261	GGTTCCTACC	TCATGTTTTA	TAGTTAATTT	AGGGGAGGGA	CTGTGTCTGT	TTATCTGGGG
25321	ATGTAGGGGT	GGGCAGGGGT	ATAGAGGGGA	CTTCAATTAA	TGAAACCAGA	AGCAAAACTC
25381	AGTTGAGGAC	ACCGGTCATG	AGAGTGGCCT	GATTATGGCC	AATCTTACAT	AATGTGTGAG
25441	ATCTTGATAT	TACCCCATCC	TTGAGAGTCC	TCTATAAAGC	TACAGGGACT	TGGGAGCACC
25501	TTTAATTACA	GACAACCCAT	GTTCTGTGG	ATTATGATTT	ATTAGATTGC	ACATGCCTAA
25561	ATAAAGACAT	CCTCTGCAGT	CTTTTGACAA	TTCTATAAGC	ATCTTCTGAC	TCCGCAATTA
25621	GACAGCTAAG	AGATCTGTGT	TACTTCCCTC	ACATATATAA	ATAATTTTAA	ATAAAAAATCA
25681	TGGCGTGAAT	AATTTCTTTC	CTCTACCGAT	TTGAAGCTAT	CCATTTGGAA	GACCACTCTG
25741	AAGAGATGAA	ATAAGTCTTC	TGCCAAAGAT	TACTTATTAA	TTTACAAGGA	AAAGGGGAAG
25801	TTTTGTTCCT	CTCCGTGAAT	TTGATTGAAA	ATCGAGGGCT	TTCTCGAATA	GTTTTGGCAT
25861	CCAGGGTCAT	TTTTCATTAA	AAAGAGAAAA	GTCATGTCAA	ATATGAATTT	CCGCAGATTA

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25921	TTCAGCACTA	GACCCCTGGGA	GATTCTGTAA	AGAGGGGTTT	TGTTATACTC	AACTTTTCCG
25981	GGTAAAACAA	ACACAAATAC	TCCTCCTCCA	AGGGGCGGGG	GCGGTGCCTA	GGTGATGCAC
26041	CAATCACAGC	GCGCCCTACC	CTATATAAGG	CCCCGAGGCC	CCCCGGGTGT	TTCATGCTTT
26101	TCGCTGGTTA	TTACATCTTG	CGTTTCTCTG	TTGTTATGTC	TGAAACCGTG	CCTGCAGCTT
26161	CTGCCAGTGC	TGGTGTAGCC	GCTATGGAGA	AACTTCCAAC	CAAGAAGCGA	GGGAGGAAGC
26221	CGGCTGGCTT	GATAAGTGCA	AGTCGCAAAAG	TGCCGAACCT	CTCTGTGTCC	AAGTTGATCA
26281	CCGAGGCCCT	TTCAGTGTCA	CAGGAACGAG	TAGGTATGTC	TTTGGTTGCG	CTCAAGAAGG
26341	CATTGGCCGC	TGCTGGCTAC	GACGTAGAGA	AGAATAACAG	CCGCATCAAA	CTGTCCCTCA
26401	AGAGCTTAGT	GAACAAGGGA	ATCCTGGTGC	AAACCAGGGG	TACTGGTGCT	TCCGGTTCCT
26461	TTAAGCTTAG	TAAGAAGGTG	ATTCTTAAAT	CTACCAGAAG	CAAGGCTAAA	AAGTCAGTTT
26521	CTGCCAAGAC	CAAGAAGCTG	GTTTATATCCA	GGGACTCCAA	GTCACCAAAG	ACTGCTAAAA
26581	CCAATAAGAG	AGCCAAGAAG	CCGAGAGCGA	CAACTCCTAA	AACTGTTAGG	AGCGGGAGAA
26641	AGGCTAAAGG	AGCCAAGGGT	AAGCAACAGC	AGAAGAGCCC	AGTGAAGGCA	AGGGCTTCGA
26701	AGTCAAAATT	GACCCAACAT	CATGAAGTTA	ATGTTAGAAA	GGCCACATCT	AAGAAGTAAA
26761	GAGCTTTCCG	GGAGGCCAAT	TTGGAAGAAA	CCCAAAGGCT	CTTTAAGAG	CCACCCACAT
26821	TATTTTAAGA	TGGCGTAACA	CTGGAACAAA	GTTTCTGTGA	CAGTTATCTA	TAGGTTTAAG
26881	TTGTGATGCA	GCTGAGTTGA	AAAGGCTTGA	GATTGGAGAA	TTAATTCAGG	CCAGGCTTCA
26941	AGACCATCCT	GGGCAACATA	GCCAGACTAC	CATCTATACC	AGGGGTCTCT	ATTTCCCCGG
27001	CCACCGACCG	GTAACCGGTC	CCTGTCCATG	GCACGTTATG	AATTGAGCCG	CACAGCTGAG
27061	GGGTGAGCGA	ACATTAACCA	ACTGAGCTCC	ACCGCCTGTC	AGGTAGCTG	CAGCATTAGA
27121	TAGATTCTCA	TAAGCTCAAA	CTGTATTGTG	AATGGCACAT	GCAAGGGATC	TAGGTTTCAG
27181	GCTCCTTGTC	ACAATCTAAT	GCCTGATGAT	CTGAGGTTGG	AGCAGTTTTA	GTCCGGAAAT
27241	CATTGCTCCC	AGCCCCTGCA	CCCCCTGGTC	CGTGGTATAA	TTGTCTTACA	CAAAACGGTC
27301	TCTTGTGTCA	AAAAGGTTGG	AGACTACTGG	TTTTACAAA	AAGTAAATTA	GTCAAGCATG
27361	GTTGGCACGC	TCCCTTAGTC	CCTGCACCCA	GGCGTTTAAG	GATACAGTGA	GCTATGATGG
27421	TGCTACCTCA	CTCCAGCCTG	GGTGACAGCG	AGTCAGACGT	TGTCTCAAAA	CTTAAAAAAA
27481	AAAAAAGTTA	AAACAGAAAA	AGGGCTTCTT	GTCAGAGACT	GCCGTATATC	TAGAGGTCCA
27541	GGAATAAAAA	AGTCTGATGT	CCAATCCTGA	AAAGCTCGAT	GGTGCACTAG	AGGAGGCTTT
27601	TACATGTAAG	AGCATCTAAG	TTCTGGAAAT	GCCAGTGTCA	GGGAAGGGAA	GTGGAGAGCA
27661	ATTTGGCATC	CAACATAAC	TTGCTGATAC	TTTTTTTTTT	TTTAACACAA	GTACTACATT
27721	CTAGTCTTTC	TGTGGTGTCA	TTGTAACAT	TGTTTCTTAA	TATGCTATCC	ACTGACTTCA
27781	AGGGATCAAT	AAATAGGAAT	CAAGGTGTCC	CAGAATATGG	ATTAGGGGAG	TTTTTTTGTT
27841	GTTGTTGTTG	TTGTTGTTTT	TCATCTATTC	ATTATCCTGT	AGCTGAAATT	TAGAATTTTC
27901	TTCCATTGTG	TGTGACTGAT	AGAAATAACA	AATTTGTAGG	TTATAGTTGT	TGCAAGAATC
27961	TGGAAATCGT	GCTTGCTTAT	TTCCGAAGTA	CTATTAGGTA	TATCAACAAA	AACACACATA
28021	TTACGGTCAA	GTGGTTTGAT	AATTATTTTA	ATATTATTGG	TCTAATACAA	TTGTAACCTT
28081	ATGAATTACT	TTAAGTATCT	TATTTATGAA	AAGAATCTGT	AAGTTTCATC	AGACTACCAG
28141	AGCATACCGA	AGACTGAAAA	ATTTTAAGAA	TCCAAACCTT	AATGGAAATG	TTGGAGGCTG
28201	CCCAATTAGG	TTCTGAATTC	CACCTTCCTG	AATCACAAAC	TTGTTTTAAC	TCTCAGTCTG
28261	AGGTAAACTA	CGTTTCTCTT	TAAACAGACA	TAGTTTAATT	TTCTTTTGAT	TTTTGATTTA
28321	GTATTCTTAC	TGATCATCAT	AAATAACCAA	TGCTAATGTT	AGTCTACTTT	GGACCATGGT
28381	ATTTTCGAGAA	ACTTTGAACA	AAGTCCCCTG	CAAAACTATG	CATTGCATTA	TTTCACATAC
28441	ATTTATGTTT	TCCAGACGGT	TCAATAGTAC	CTCACTTTTC	TGAACTTATT	TGTATAGTTT
28501	GGCATCTTTT	TAAAAATTGT	GTCCCTATAAT	GAAAGGTTGT	AAACATTATG	TTTTAAATTT
28561	GTATAGATAA	AATCAACCAC	AGACCTTTCC	TTGCTTGGAT	GTAATTGCCA	TTGTTTCCCA
28621	ATGAGTTCGG	AATTACTAGG	ATTGTGCAAA	AATATGCCTC	ACTTGCCTGA	CATAGCAGAG
28681	AGCCATTTTG	CCTAAATGCT	GTGCCCAGCA	ATGGACTGTC	ACCAGATTCT	CATCACATAC
28741	AGTGAGGATG	AACAACAGC	CTCTCCCAGC	AGCTGGCCGG	TCTCTCAATA	ATATGGGACT
28801	CCCTCAAGAT	GGCTTCCTGC	ACCTTTGCTC	CTCTAGCCTT	GTATGTATAC	AAGGCTAGCA
28861	TGCCTGGCAT	ACATAAGGTT	AAAAACAAAA	TCAATAAGTT	ATGGTTCTTC	CTCCAGTTCT
28921	GGGGATTATT	AGACCACTTT	TTTGTTTTGT	TTTGTTTTGG	ATGGAGCCTC	GCTCTGTCAC
28981	CCAGGCTAGA	GTGCAGTGGC	ACAATCTCGG	TTCAGTGCAA	CCTCTGCCTC	CTGGGTTCAA
29041	GCAGTTCTCT	GGCTCAGCCT	CCCACGTAGC	TGGGATTACA	GGTGCCCGCC	ACCACGCCCG
29101	GCTAATTTTT	GTATTTTATG	TAGACGGGGT	TTCACCATCT	TGGCCAGGCT	GGTCTTGAAC

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29161	GCCAGACCTC	GTGATCCACC	CACCTTGGCC	TACCAAACCTG	CTGGGAATAC	AGGCGTGAGC
29221	CACCGCGCCC	GGACTTAGAC	CACCTTGT	TGGCCAATAG	GACAACAGCC	ATAGAACCCT
29281	CCGCAAATGA	GAGCTTGTCC	CTAAAGATGC	TTTATTTTACA	TAGCTGTGTG	CCGCATGAGC
29341	CAAAAGGTGA	TAACCTTTGT	TCAACACGCG	CCTCCAGCCC	TTCGGTTAAG	TCCAAAGTAC
29401	CATTCTTAGA	ATGCTCTAAA	ATACATAATT	TTTTTTTTTTT	TTTTTTTTTTT	TTTTTTTGAG
29461	GAGTCTCTCT	CTGTCTCCCA	GGCTGGAGGG	GAGTGGCGCG	ATCTCGGCTC	ACTGCAATCT
29521	CTGCTTCCGG	GCTAGCTGGG	CCTACAGGTG	CAGACCACCA	CGCCCGGCTA	AGTTTTGTAT
29581	TTTTTTTGGT	AGAGGGGGTT	TCACCATT	GGCCAGGCTG	GTCTCGGATT	CTTGATCTCA
29641	AGTGATACAC	TAGCTTTGGC	CTCCCAAAGT	GCTGGGATTA	CAGTCGTGAG	CCACTGCGCC
29701	CAGCAAAATG	CTTTTTGTGG	AGCCAATCAC	TTTATTAGCG	CTTACCTCTC	TATGCCTACT
29761	TTATGCTTTG	AAATTTTGTG	ACAGTGTGGC	CGGTCAATGG	AAACACAATT	CATTCTTATG
29821	CAGGATGTCA	CGGTTATTTT	TGTCATCCAA	ACTCATTCTC	GCAACGCATT	TCAGCTCTTT
29881	AAACGACTTT	GTGAGCGGCC	CTGAAAAGGG	CCTTTGGGTT	TTTTTGT	TGTTTTTTGA
29941	AGTTCTCAGG	AGACCGCGTA	TTCTTAGATT	CAGCCGCCGA	AGCCATACAG	AGCTCGCCCC
30001	TGACGTTTTA	GGGCATATAC	TACATCCATG	GCTGTGACAG	TTTTCGCTT	GGCGTCTCC
30061	GTATAGGTGA	CGGCGTCTCG	AATAACGTTT	TCTAAGAAAA	CCTTAAGCAC	ACCTCGAGTC
30121	TCCTCATAGA	TAAGACCGGA	AATGCGCTTG	ACGCCACCGC	GCCGAGCCAA	ACGGCGAATA
30181	GCCGGTTTTG	TAATGCCCTG	GATGTTATCC	CGGAGCACCT	TACGATGGCG	CTTAGCACCA
30241	CCCTTCCCCA	AGCCTTTTCC	GCCTTTGCCG	CGACCAGACA	TGATTCCTAT	CGCAGTGGAA
30301	GGTATGAACT	GAAACAGTTC	CTTAAATACA	AACCTGGCGG	ACCTGATTGA	AAACAACATG
30361	AGTTGGCGCG	GTTTTTTTTT	TTTTTCAAAT	TTGGTCACCA	AGTGGGTGGA	GCAAGAAAAA
30421	CTGTTTCATT	ATGGTTCATT	GTTTGTGATT	GCCAGTGACA	GCTTGCTCTT	TGTGGGAGTG
30481	GAAGGGTGTT	TGCAAGTTGA	ATGCGCTGTA	TTCTGTCTAG	CTTAATGACG	CTAAGCATAG
30541	CCCCATTCCA	CATTTCTTTT	TATTTCCACT	TGCTAACTAA	TAAATTACGG	AATAGTTTAT
30601	TGGGGAACAT	ACAAATAATG	TTTAAAGGAG	GTCAGATTTA	TAGGTCAAGG	GATTTACCCT
30661	CCCAATCATT	TTAATATTTT	TATTTAAACC	AGGCATTTTG	ATGGCCTTCT	CTGTGCTGGA
30721	CAAGGTATAA	GTTTGGCTAT	GAAGTTTCAC	TCCTAAAGAC	CCTATGTTTT	GGGAAGGCAA
30781	AAAGGTAGCC	AAATAATTGC	AAATTAAGAC	CTCATAAGTG	CAAACCTCTT	CCTCGTCACT
30841	TTCCCTATCT	CGATTCAAAT	ATTTGTTGAA	TGACTCATTT	TTCTGCAAAA	GTCTGAGAGA
30901	GACAGGGAAT	ATAAACTTAA	GTCTGGATAA	TATGTTTTCC	CGGGACGGTC	TTCTGTGCTCT
30961	GCTGTGCCTG	TTTGCTGTGC	CTGAAATTCC	AAACACTCTT	CCCTTCCCTC	CGTTTTTAAT
31021	CCCCTTTCAA	CTTGCTACAG	CTTTAGAGAA	AAGAACATTC	GTTTTGTACA	GTTGGGGATT
31081	AATTGAAGTG	TAGGGCTAAT	ACTTGATTAA	GGTCATTACA	AAATCTACAG	GGTCTTCCTC
31141	TGGGAGGTTT	TTGTGATAAG	ATTATTGGTG	TTAAAATAAG	GCTAATCCCC	TTGAAAAATA
31201	AATAGAATAG	CAGAATTGGG	TCTGAATGTG	GTTTGAAGAA	AGGGACTTCT	CAATTCAAAA
31261	TTTTATTCTT	AGCTTCCTGC	GGGAGCTTTC	CAGAATGCCC	ATAAGATCCA	CTTTTGTTTA
31321	AAAAACAAAA	ACAACCCAC	CCACCACTCT	CTGGTTAATA	AATGAATTTT	TATTGGGAAT
31381	ATTTAGAATG	GGGCTGTGGC	CTGTGAGAGA	CATTATATAG	TAACCTCAGA	CTTGCTCACA
31441	TGAAGAGAAG	AAATCCAGGA	ATGGAGAAAA	AAGACCCAGG	AAAGGCCAGA	ATGCTCTACA
31501	TGTCATATTG	TTTGATACAC	TTCTGAAATA	ATTGATTACA	TTCTTCTGCC	CCAAATTGAG
31561	TTCTTAGGTT	CTTCCACTCA	CTGTCCACAT	GCCACAACAC	AGACCTTATA	ACTAGAGACT
31621	TAGCTAGGAA	GAAATGTCAA	ACATTACAGA	GAAAAAATGC	AGAGTCTGAG	ATCATAAGTA
31681	AAACTCTGAA	ATCTCAACAT	GCCTTTTAAT	TCATGAAAAAT	AAAAAATATA	GCAGCATATG
31741	CAATATGACA	ATTCTCTGAA	AACATACATC	ATGTGAACTA	CCCTGGAACA	CATCTCGCCA
31801	AGTGCCATCT	TCATTTTAAC	CAGAGGTCTA	GGATGCCTTT	CCTTTATTTT	GCCTATTATA
31861	TCATTTATAA	AACCCCATTT	TTATTTTGAT	ATTTTATTTA	CTTTCTATTT	CCTGCTCCTA
31921	ATATCTCCTT	TCTAAACTTT	TCTCAATGAC	AGTGACTCAA	AAACAATGAA	TGTCAGAACA
31981	AATATTTTAA	GGATCTGTAC	ATGTAGATAT	ATATATTTAA	AATGGATTCT	TCCACTCTGC
32041	GAAGAATTCA	GGCATACTCA	ATCTTATGGT	TAGGGAGAGA	TTAGGCTCAC	TCGCCTAATC
32101	TGTATGGCTT	CTCGTTCGCT	TTCCATTTC	CCTTCCTCTC	ACCCATCAGA	TCAAACCTCAT
32161	TCATTGAACA	AGAGACCTAA	GCCCTTCAGA	TTAAAACTCT	GCAAACAAGT	TGTGGTTGAG
32221	AGGATACATG	AAGCATTCAA	ACAAATAAAT	CTATGATATT	AATCAGAGGT	TAATCTATGA
32281	TATTAATCAG	AGGTTAATGC	AGTGGCTCAC	GGCTGTAATC	CCAGCACTTC	AGGAGGCTGA
32341	GTTGGGAGAA	TCGCTTGAGC	TCAGGAGTTC	AAGACCATT	TGGGCAACAT	AGCAAGTCTT

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32401	CATCTCTACT	TAAAAAAAAA	TAACCAGAGG	TGTTATGAAA	ATATAAATTG	TCCAGAACTA
32461	CCCTCCACAA	ACTAACTCTC	TCAGAATATT	CGATATGAGG	AATGAAATAT	GGTGTGTGTG
32521	TGTGTGTGTG	TGTGTGTATG	TGTGTGTGTG	TGTGTGTGTA	TGCACCTATA	TATGGCACCT
32581	ATATATTCAA	CAAACAATTC	TGATAATTGG	CCAGGGTTGA	GAATGACTAG	CAGCCCAGCA
32641	TACACTATCA	GTTTTAAGTA	TATAATTGCG	CTTTAGTAAA	ATGTAAAGAA	ATCCCAGAGT
32701	AGAAATACTT	TTAAGCTATA	TTACAGGTGA	GAAAATGCAT	AAGTATAGTC	TCACCCAACT
32761	TAGACTATGG	GGGCTTTATA	ATGTCACAAC	AGTTGTTTCC	AGGCATTTGG	GGACATCACC
32821	ACTGGTCTTG	GGCAAGAAAC	TCCTCTAGCC	AATGGCTGAT	TTATCTCACT	CCCATCTAAG
32881	GCTTCACTGC	ATTTCTCTTT	TTCAGCAACC	TAACCTATTT	AAAAATATCC	ATTTTCTGAT
32941	TCATTTTTTT	CTGAATTAAA	CTGTCACTAC	CATTGGCACA	CCTTTGGTTC	CGTAGCATAC
33001	CTGTGCTCT	GCTGTGTTTT	TTTTTTACCT	CCACTCCTTA	CTTTTCTAGA	AAAAAATCTC
33061	TGCTTTTTCT	TTTCAGTTTA	AATTAATTCA	CAAAAAGTTT	TCTTGACTTG	CACCTTCCTAG
33121	GCTTGCTGTC	CTTGTGTGGG	CACGCTCCCA	TAAACACTAT	TAATACACTT	CGATTTGTGA
33181	AAAATAAAGA	TATCTGGACA	GAAAATTTCT	TTTCTTTTTT	TAAGATTTTA	AAATTTTAA
33241	TGTTTTATTT	TTTCTTAGAC	TGGAGTACAG	TGGCACCATG	ATGGCTCATG	GTAGCCTACA
33301	CTTCCCCGGG	CTCAAGTGAT	CCTCCCACCT	CAGCCTCCCA	AGTAGCTGGG	ACTACAGGTG
33361	TGCACAACCA	CACCTGACTA	ATTTTGTTTA	TTTGTGTTGT	TTGTTTTTTG	AGATGGAGTT
33421	TCGCTCTTGT	TGCCCAGGCT	GGAGTGCAAT	GGCGGGATCT	CGGCTCACC	CAACCTCTAC
33481	CTCCCAGGTT	CAAGCAATTC	TCCTGCCTCA	GCCTCCCGAG	TAGCTGGGAT	TACAGGCATG
33541	CATCACCACG	CCCAGCTAAT	TTGTATTTT	TAGTAGAGAC	GGGGTTTCTC	CATGTTGAGG
33601	CTGGTCTGGA	ACTCCTGACC	TCAGGTGATC	TGCCCGCCTC	GGCCTCCCAA	AGTGCTGGGA
33661	TTACAGGCGT	GAGCCACCAC	GCTCGGCCAC	TAATTTTGTA	TATTTTGTA	AGATGGGCTT
33721	TCCCTGTGTT	GTCCAGGCTG	GTCTTGAATT	CCTGGGCTTA	AGTGATCTGC	CCACCTTGTC
33781	CTCCCAAAT	GCTAGGATTA	CTGGCGTGAG	CCACCAGGTC	TGGCTGGAAA	GATAATTTCT
33841	AACATTATCC	TCTCTTAAAC	ATTTGTTTCA	AAAATTTTAC	AAACATGAGA	GTAATTAAT
33901	TTGATTTTCA	AAATTCCTTT	GAATACTTTC	TTAATAGCAC	ACAGAAAGCA	CAAAGTATTT
33961	TACATTTGTT	TTAATGATGA	AATGTGTAAC	CCAAACTTAC	ACAAAGAAAA	ACCCGTAACA
34021	TTATACCCAT	ACTTAAACCA	GATGCCCTCA	TATACATAGT	AAAACCTTGT	GGGGCAGTAG
34081	TGAAGTTGGT	TATTTACTGT	TTTATGAAAG	TGCCATTGAG	CCGGGTGCAG	TGGCTCATGA
34141	CTGTAATCCC	AGCACTTTGG	GAGGTGAGG	CAGGCTGATC	ACGAGGTGAG	GAGTTCAAGA
34201	CCAGCCTGAC	CAAAATGATG	AAACCCTGTC	TCTACTAAAA	ATACAAACAT	TAGCTGGGCG
34261	TGGTGGTGTG	TGCCCTGTAGT	CCCAGCTACT	CAGGAGGCTG	GGGCAGGAGA	ATCGCTTGAA
34321	CCTGGGAGGC	GGAGATTGCA	GTGAGCCGAG	ATCGCACCAC	CGCACTCCAG	CCTGGGAGAC
34381	AGGGCGAGCT	CCGTCTCGAA	AAAAAAAAC	AAAAAAGTGC	CGTCATAGTG	ACTCAGTTTT
34441	AAGGAATAAA	TCAAGGATAT	TTAACTCAAT	AGACTACAGT	TAGCTAACGT	GACTTGCACT
34501	GAAAGTTATA	CGAATATTGG	TACTTATTCC	CCTGCCCTTG	AAGTATGAAT	TAAAGACTCC
34561	AAAATTCTTT	TTAGAATCTT	CAGAGTAAAA	GCTAGAATTT	GATTTTTTTA	AATAATAAAA
34621	AAATACTTTG	TATCTAAATC	TGGTGTATAA	AATAACTTGG	TGGATGATGC	TTCAAGGCTA
34681	TCCATCCCCA	AATTTCTCCC	TGAATGATAA	AGAGAATAAA	TGAATATGTC	AATTCAAAAG
34741	TTAGAAATTT	GGCCGGGCAC	GGTGGCTCAC	TCCTGATAAT	CCTTTCGGAC	GCTGAGGTGG
34801	GTGGATCGCA	TGAGCTCCGG	AGTTCAAGAC	CAACCTGGGC	AACATAGCCA	GAACCCGTTT
34861	CAATAAATAA	TAGAAAAAAA	TGAGCCAGGC	GTGGTGGTCC	CAGCTACTCA	GTAGGCTGAG
34921	GTGGGAGGAT	CACCTGAGCT	CAGGAGGTG	AGACTGCAGT	GAGCCGTGAT	CGCAGTACTG
34981	CACACCAGCC	TTGGTGTGAG	ACTGAGACCC	TGTCTCAACA	ACAACAAAA	AAGTTAGAAA
35041	TTTGGCTGGG	CGCGGTAGCT	CACGCCGTGA	ATCCCAGCAC	TTTGGGAGGC	CAAAAAGGGC
35101	GGATCATTTG	AGGTCAGGAG	TTGAGACCA	GCCTGGCCAA	CATGGTGAAA	CTCCATCTCT
35161	ACTAAAAATA	CAAAAAAAT	TAGCCGTGCA	TGGTGGCATG	CGCCTGTAGT	CTCAGCCACT
35221	TGGGAGGCTG	AGGCAGGAAA	ATTGCTTGAA	CCCAGGAGGC	AGAGGTTGCA	GTGAGCCGAG
35281	ATCATGCCAC	TGCATTCCAG	CCTGGGTGAT	AGAGTGAGAC	TCCATCTCGA	GAAAAAATAA
35341	AAAATTCTGT	ATGAAGTGAA	CAAAATATCC	TTAAATTTTA	AAATACATCT	GAAAGATATT
35401	TCAAAATATT	TAGGAAAAAA	ATTATAGGGA	TCAGGCAAT	TCTGAGATTC	CTTTTTCCT
35461	GCAGCAAACA	TTAGGAGTGC	TGCTGTTTCT	AAAAACATGG	TAAGTGTGTC	CACACCGTAT
35521	GTTTCCTTGG	CTCAGACATA	AGGTTGTGTA	GTTGTTATTC	CAGAATAGCT	AGAATAAAAA
35581	TCCAGCACAT	CATTTTCTTC	AGCAAGTTAA	CTAACCTCTC	TGTGCCCTTG	TTTCATAACA

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35641  GCAACATAAG CATAACAGAA TAGCAGCAAT AGCTCCTACC TACCTCATAA GATTCTTTGG
35701  AGGAATTAAA TTAAGATTCA GAACACAGCC TAATATCTAG TAAGTAATAA TAATTGGCTA
35761  AAAAAATTTT CTTAAGATTA TATATATTCA TGGGGTACAA GTACAATTTT GCTACATTAA
35821  TATATTGCAT TGTGGTGAAA TCAGGGCCTT CAATCCATCC CGGAAAAAAA AAGTTTTTGA
35881  AAAGATTTCT GCCATGGAAA ACTTTTAATG TACAAATTCA TCCATCCAAG AAATAGAAAA
35941  TATATAAGTA TCAACTCCAA ATCCACCATA TCTATCTCTT CTACACCTTA AACAATTACT
36001  CAGAAATAGA ATGCTTGAGA TACCAGAATG CATGCATATC AAGTAATAAA TGCATGCAGG
36061  ATGTCAACGC ATCCTAGGCT TTCAAATAAA ATTGTCATAC AAAATACTTT AATATTGTAG
36121  TAACATTCTA CATGTTAGAG TGTAGAAGTT AATCGCTGAT GCAAAAAAGG AAAAGAACAC
36181  ATTATACCCA AAGCCTACAG AGAGAATCAC AATTACAAAT ATCAGCCTGC ATGTGAAAAAT
36241  CTTTAATTTG AAAGTCAGAA ATATTTAAAT GATAGTCATT GTTAAATCAG ATTGTGGTTT
36301  GAAAAAAGT TAGTTTAAAA CTGAGTTTAT GAAAAATTTG GGGATTTTAG AGACAGTGTT
36361  TTGTTTTTAA ATGTGTGTGA GTTGTGAAG AATGTTTTAT AAAATACTGA CAGTATTATA
36421  AGATGACATT ATTATAATAC AACATAAGAA TTTTGGCCTG TACCTCTCAG CAGTCCTCAA
36481  TCACCTGCTG TACTTGACTC AATGATTATC AGAGTGGTTT GTTTTCCTTC TGTTGTGTTT
36541  CCAGTTCAGG CAGCTCAGCA ATGGCCTGTG ATTCCAGCAA TTCAAATAGT TGGTAAGTAG
36601  TTTCTTGTTT GTTTTCTCAA ATTTTCAGGG GCTTTTCTCT ACAAGTAGT TCCAGTGCAC
36661  GCCCCTCCAC CCATTCTTTA TTCCTTTACC TTCAGGAAAA CCTCAGCGC TGCATCTCTG
36721  GTCACCGGAC CACCGTGGTA CATTTACCTA TGGCCACCAG GTGTCACCCT TCTCTTTACT
36781  ACCATGGTTT GTGAATGGTT TTGCCAGAGG TGAATAAGAA TTTAAAATGC AGGTCTTTGA
36841  TTTTTCAAAT GTAGTTGACC TTAAGAATTT ATGAATAAAG CCAGAAAAAT TAAGCTTAAA
36901  AAACACCGAA AGAAAAAGAG GACTTAAAT TTCTATTAAA AAAATTAACA GGCCACAGTT
36961  GCTGATGTTT AGTAAATGTG TTAGTGAAAT GTGTTACTGT GAAGACTGGG GTGTTTCTTG
37021  AAATCTCAGC CCAGGTGAAA TAAAACCAAT ATAAAACAAA TGCTTACCTA ATAAATTAAT
37081  TGTAACATAT TCCTTATGAG GTAGAAGAGT AAGTGAAGCC TTATAGCAGT CTGCTTTCAG
37141  TATAGTAAGA TATTAAGAGA GAAATAATTT GTCATATGCT TTCAGAATGG TTTGCTGGTA
37201  AAATAACCAA TGCTTACAA CTTAGACGAC AATGTCCCTA GAGTGAAGAA ACACGATTAA
37261  TTCGGCTACC ACAGTTGAAT GAAAATATTC CGTAAGACAA AATGTAAAGA AATTAGAAGC
37321  AAAATAAATG TCTCCAAAAT GACAAAGCGA TTAAGTATAT ACACAAGATG AACAAGAACT
37381  TCAATAAAAT CATGCAGTAT ACAATACAAT ATACATTTAT TAAAGTATAT GCATTTTTAA
37441  TGCAACAATA ATACTAACAG GTAATGACAA AGTTGTAAAT AGTTTTTCAC TGGCTAATTA
37501  AATAACAGCT TTAATTGTAT TCATTTTATA GCTTTTCTAC AATGAGCGTA AATCACATTT
37561  ACTTTTTTCT ACATAACTTT TCTAACCACA AAAAAAGAAA ATGGTTTTAA AGAAGAGATG
37621  AGATATCTTT GCTAAAATTT AATGCCTAAA GAAGAAACTT CTGAGCTGTA TATGGTATCC
37681  TGAAGCACCT GCCCTTCAAG ACAGAATGCT TGTACCACAT TTATGCAGCC AAGTGCATGT
37741  AGTAACATAA AGTAAACACA TGCCATCTGG ATATATATAT TAAGACTCTT TTGACGGCTG
37801  GGCAGGGTGG CTCACACCTG TAATCTCAGC ACTTTGGGAG GCCGAGGCAG GCGGATCAGG
37861  AGGTGAGGAG AGTTCGAGAC CAGCCTGGCC AACATGGTGA AACCCTGTCT CTACTAAAAA
37921  TACAAAAATT AGCCGGGCAT GGTGGTGCAC GCCTGTAATC CCAGCTACTT GGGAGGCTGA
37981  GACAGGAGAA TCGCTTGAAC CTGGGAGGCA GAGGTTACAG TGAGCCGAGA TCATGCCATT
38041  GCACTCCAGC CTGGGCAATA GAGTCTCAA AAAAAAAGAA AGACTCTTTT GAACATGGTG
38101  AACTGATTTT CCAGAATCTA GCAATTCCTG AATGTCCCTG TTAGATTTTT TTTTAAATGT
38161  GCACCGGAAC CCCAGTGGCT CCATGGAAGG ACCTGGGCAT CCTCTAAGCC ACTTGGTGGC
38221  TTCCATTATA CCATCTCAA ATGAGAGAGC TTACTCCACT TCATTGAGGG AAATAECACC
38281  AGAGTTCTGA CTCCAGAGGC ACTGGCCTAG GGAGGACACC GTGTGTGAAG CCCAGCAGGG
38341  CCAGTAGCTG TCCCCACCAA TTACAGTCCT TGCCTAGGGT CCAAAGAAAT GAATGCCAAA
38401  GAGAGCAACA GAGGAGCAAG GGAGTCACAT TCCAGGACCT TCCTTCAGGG ACTTTTAAAG
38461  GAAACATGAC AGCTGAGGAT CAGTTGGTTG TTTTCTGCTG TTCCCCTTCA TGTGATTCAA
38521  GCTCACTCAG AAGAAACACA ATGAGACAA AGAAGAGCCA TCTCCTTCCT TCTCTATTTA
38581  TTCTAGGCAT CTAAACTACT GAATGTAGTG GTGTCTGAGA TGTATCAAAC GGTGAGATTG
38641  ACTGAGTTTG AAACCTGTTT CTATCACTGA CAACTATGA GATACTCTAT ACTTCACTTT
38701  CTTTTTTTTT TCATTTTTTT ATTTTTATTT TATTTTTTTT GAGATGGAGT CTCACCTGTG
38761  CACCTAGGCT GGAGTGCAGT GGCGCAAAC CGGCTCACTG CAAGCTCTGC CTCCTGGGTT
38821  CATGCCATTC TCCTGCCTCA GCCTTCCGAG TAGCTGGGAC TACAGGCGTC TGCCACCACG

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38881	CCCAGCTAAT	TTTTTGTATT	TTTATTAGAG	ATGGGGTTTC	ACCATGTTAG	CCAGGATGGT
38941	CTCGATCTCC	TGACCTCGTG	ATCCACCCGC	TTTGGCCTCC	CAAAGTGCTG	GGATTACAGG
39001	CGTGAGCCAC	CGTGCCCGGC	CTACTTCACT	TTCTTCATTT	AAAAAAGAAA	TGGGGATAAT
39061	AGTACCTATC	TCATAGAATT	ATTGTAAGAA	GTGCATGCAG	TAATGCATGT	AAGTAGGTGC
39121	TCAGAAGAGT	CGGACACGAA	GTAAGTGCTT	TTATCATCCT	TATCATAATT	TTCAATTATCA
39181	GAACAAGGAG	AGACCAGGTA	GAAAATTATT	GTGATTCTTC	AGGTCTGGAA	TACTAGAGTA
39241	GCATCCCAA	TGAAGGCACC	ATTAACTTT	GCAAATCTGT	ATGACACCTT	CATGCCAATT
39301	AGAAAAACA	CCTCTTCACA	ACCCCTTTCA	AGATATTTGC	CTCCTACCTG	CTAAAAACAC
39361	CCATCATACT	ACCCACAGAT	AGCCATGATG	CTTTTCTGG	GACAGGTGCC	TCTTCCATTG
39421	GTGCAGTGTA	CAGCCTTCAT	AGCTGTGCAA	CTCACATCAC	AATCAGATGG	AAGAATCCCC
39481	AAGGCTTGGT	GACAGATGAG	TTACTGGGTA	ACACAGAGAG	AGGATTCAAA	GGAAAAAGTTG
39541	AACGGGTCCA	GAAAATGCAT	AGATACATGT	GTAAAAATCT	GGTAAGGTTA	TGACTAGCCA
39601	CGTCCCAGGG	TTCAAAGCTT	TTCTCAGATG	TTAAAAATGAA	TCATGTAAGT	CCCCCAAATT
39661	TAAGGAGTCC	TCTTCCAAAA	ATAGGAAATG	AAATGACATA	GGTGTATGTC	TCTGAGGTGA
39721	CGGAGGAAAT	GAAGGAAGCC	TCTAGATGCA	GCTTGAGGTT	CATGAGAGAC	AGTTCCAGGG
39781	GAGAGGTCAC	AGCTAGGGAT	CACCGGCATG	CAGGAACTCA	GAAACCTAAA	TGGGGAAATC
39841	TTTTTGAGGA	AATGAACAGA	GAAGGCTAAA	ATCAAGGAGT	TCGTGAGGCA	ATTTCTATGT
39901	TTAGGTTCAA	CTCTCTCCTG	AAACATGAAG	AGCTCATAAA	TGCACTCCCT	CTTTGAGTCT
39961	CTAGTTTTGT	CTCCTTCCCA	CAGTGAGTCT	GCAGGCTGCG	TGTCACTCAC	GTTCAGCTAA
40021	GACGTAGTGC	CCCATGGCTC	CTCCTGTGGA	GACAAGAGAC	CCAGGAAAGA	GGCATCACAA
40081	ACCTAGGCAC	CATCTTGCTC	CTTCTCTCTT	CCTTATTTTC	CTCATTCACC	CATCTCAATT
40141	TAGACCTGGG	CACTATTGGA	TTTCAAGAAC	CATTATCTCT	CATCTGGAAA	TGCTTATTGG
40201	CTTTCTAACT	GGTCTCCTCA	CCTCTCATCT	AACTTCTTAA	CAACACATTC	ACCATATAAG
40261	GGAGATCGTG	GTCCCTCCTT	CTTAGATCC	TTCAATGACA	CCCCAGTGAT	CATAACCCAA
40321	TATCCCAAAA	GACCCCTGGA	CTCTGTATGA	GCTGGCTTCT	TTCTGATTCT	CTTTTCCCTA
40381	CACCACAGAT	GTTTCAAGGGG	TAGAAATGCA	TAATTGGTGA	GTGATAGCTA	CGCAAACCTA
40441	GGGTTAAGGT	ACAGTAATTA	TTTCTAATCT	CCCAGTATGC	CTTATACTCT	CCTACTTGGC
40501	ATGGTTGCTC	CGTCTGTGTA	GACCTCCCAT	CATCTTCAAC	CTCACCTAAT	GGAATCCAGC
40561	TTCTCCTTCA	AGATCCAGAA	GGCTATCTTG	ATCCCCAGCT	GAATGTGATC	ATTCTTTCCCT
40621	TTGACACCCT	AAGCATTGTC	TTCTTGCCCTG	CTTTAGGACC	TCATGGGGTC	TTCTTTAACT
40681	ACATTTACTT	GCTATCAATT	TCATTCCCTA	CCAGATTGGG	GTTCTGAGAA	TAGCCACAGT
40741	GACTTCTCAA	CCTCAAAGCC	CCTGTACTAC	CTTAAACAGC	TCTTGCAAAA	TAGTAGGTGC
40801	TCTGAAGATG	TTTGTTGAAT	TAGAGACTTT	CATTCTGGGG	AGAACCATTA	TTTTCTGTCT
40861	CCCAGGGAGC	TGCTGGTGTC	CCCAAAGAAT	ATAAATGAGA	AAAATGCTTC	CCATGGATGC
40921	CAGATCCCTT	CTGCCCTCT	TCCCCTGTG	CCCTGGGGCA	GAGGTACTAA	GAGACTTCCC
40981	CCTTGTTTCT	ACTCACTTGA	ACCCTGCCTC	TTCTTAAATA	TTATGAACAA	AATTCCCAATG
41041	AACAAGATGA	CGACAAAAAC	AGCAATTCCA	CTGATGACTC	CAATGACTAG	GGTGCCAGAC
41101	GGTGAGGGCT	CTAAAACAGA	AAAAGCAAGT	TAAAGCCTTT	GATTGCCACC	CTCAGCCCAC
41161	CCCCTAACAA	AGAGCAGATC	CTCATCTCAG	TGCCATAATT	ACCTCCTCAG	GCACTCCTCT
41221	CAACCCCAA	TAGATTTTCT	CAGCTCCTGG	CTCTCATCAG	TCACATACCC	CAGATCACAA
41281	TGAGGGGCTG	ATCCAGGCCT	GGGTGCTCCA	CCTGGCACGT	ATATCTCTGC	TCTTCCCCAG
41341	GGGTACAGC	CAAGGTTATC	CAGCCCTGGT	AGGTCCCATC	CCCATTGGGC	AATACGTCTT
41401	TAGGTTGAA	CTCCTTGGCA	TCCATTGGCT	GCTTATCCTT	CAGCCACTTC	ATGGTGATGT
41461	TCTGGGGGTA	GTAGTTCAAG	GCCCGACACC	GTAGAGTGGT	CACTGAAGAG	GTCACATGAT
41521	GTGTCACCTT	CACCAAAGGA	GGCACTTGAC	AGGAAAGAGG	AAGGATGAGG	AGAGGGGATC
41581	TGTTTACCCT	TGCCAGGAAG	ACTGGAACCT	TCACTTCTCT	CTATAGGTTG	GAGGAAGGAA
41641	ATACCCTTTT	CAGAAAAAAA	CAAGCTACAG	GAGAGACACC	ATTTTGTGTC	CTAAGATTGG
41701	ACTCTAACAC	AGTGTCACCT	GGAGAGCAGT	CAGATCAGCT	TGTTCTCCTC	ACATGTAAAT
41761	ATACATATCT	GTTACCCATG	TTCTTTGTTC	TGATAGATAA	AATTGCCCTT	TATGTGCATT
41821	GAAAATGATT	GAATACAGAT	GGTCAGTTTC	ACCTGGGTCA	ACCTAGGAGG	CATTGTTATA
41881	AGAAGCGGAC	TTGTAAGATA	GGTAGCTTCA	GTGATTATTG	CTATGTTCTA	TGAAAGAAAC
41941	TTTTAACCTA	AAGGATTCTT	CTACTCTGAT	AAGTGGCCTC	ACTTGATATT	TTGTCTGGT
42001	ATTATATGTA	TAGCTGAGAT	CTCTGAATTC	TCTTTTTTTT	TTTTTTTTTT	TTTTTAAGAT
42061	GGAGTCTCAC	TCTGCTGCCT	AGGCTGGAGT	GCAGTGGCGC	GATCTTGGCT	CAGTGCAACT

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42121	TCCGCTTCCC	AGGTTCAAGC	GATGCTCCTG	CCTCAGCCTT	CCAATTAGCT	GGGACTACAG
42181	GTGCGCATGA	CTGTGACCAG	CTAATTTTTG	TATTTTTTTA	GAGACGGGTT	TCACCATGTT
42241	GGTCAGGCTG	GTCTCAAAC	CCTGACCTTG	TGACCACCCG	CCTCGGCCTC	CCAAAGTGCT
42301	GGGATTACAG	GGGTGAGCCA	CCGTGCCCCG	CCTTGACATT	TCTGAATTTT	TAACAGGTAT
42361	AAATATACAA	AAGATTATTG	GTTAAATAAA	AAGCAAGGGC	CATAGACACT	TCCCTTTGAG
42421	CCATATGCAT	GGAGAAAAGA	AATTAAACCC	ATGACTTGTTG	GCTGTCTCAT	ACATCTCAAT
42481	TATAAGGTAG	AGACTCTAGG	ATTGAGAAAG	TCCCTTCCCA	GAATTTGGAG	AGGCACACAG
42541	CCTCAGCCAC	CTCTGAAACT	CCAACCAGGG	ATTCCGTGCC	CTGCAACCTC	CTCCACTCTG
42601	CCACTAGAGT	ATAGGGGCAG	AAGTGTGTTT	CCACCATAAC	TTGTTGGTCC	AAAACACCTC
42661	TCCCCAGCTC	CAGCAACTGC	TGCAGCTGTG	CAGGGCAGTC	CCTCTCCAGG	TAGGCCCTGT
42721	CTGCTCTGGC	CCGAATCTTG	TGCCTTTCCC	ACTCCAGCTT	GGTGGGCCAG	GCCCTGGGTT
42781	TCTGTGCTCT	CCAATCCAGT	GTGTCAAGGC	AGAATTCAAG	GTGGTCTCTG	CCATCATACC
42841	CGTACTTCCA	GTAGCCCTCG	GTACTGTGTT	CTTCTGTCAT	TTCACAGCCC	AGGATGACCT
42901	GCAGGGTGTG	GGACTCTGGA	AAAATCCCCA	GCCTTGTTAA	CTGCAACCAA	AGGAATAGGT
42961	CCCTATTTCC	ACCATCCCCA	AGGACCAAAT	GATCTCAGGA	AGCAAATTCC	TTCCTCTCTC
43021	CCTGCTCCCA	CAAGACCTCA	GACTTCCAGC	TGTTTCCTTC	AAGATGCATG	AAAAGATGAA
43081	AAGCTCTGAC	AACCTCAGGA	AGGTGAGGCC	CCCTCTCCAC	ATACCCTTGC	TGTGGTTGTG
43141	ATTTTCCATA	ATAGTCCAGA	AGTCAACAGT	GAACATGTGA	TCCCACCCTT	TCAGACTCTG
43201	ACTCAGCTGC	AGCCACATCT	GGCTTGAAAT	TCTACTGGAA	ACCCATGGAG	TTCGGGGCTC
43261	CACACGGCGA	CTCTCATGAT	CATAGAACAC	GAACAGCTGG	TCATCCACGT	AGCCCAAAGC
43321	TTCAAACAAG	GAAAGACCAA	GGTCTGTCTC	TGAGGCACCC	ATGAAGAGGT	AGTGCAGAGA
43381	GTGTGAACCT	GGAGACAGAG	CAACAGGCCT	TAACCATGTG	TAGTAGGAGG	GGAGCAGGAT
43441	GTTGAGGCTC	CACACACCTG	CATCAACTCA	TACCATCAGC	TGTGTCTGGT	CCTCATTTTG
43501	TGAAGGGTGA	GTTGCAGTCC	TGTCTTTCTT	CCATATGACA	GTCCTGGGTG	CTCTTTCCTT
43561	GTGTGCTTTT	CTCTGCCACA	CGTGGCTGCC	ACCCCTCTAC	TGCCCCCAGA	TCCTATTCCA
43621	ATACTCATGA	TTAGACAGAC	TCCACTAAAG	CTGGTGGATT	CTAGAAAATG	TTAAGGTGTG
43681	TCTAGCCATG	GTAGTTGAAC	TCAGGAGTTG	GTGCTCAGGG	CAAATTAGAC	CCAAATCCTG
43741	AGGAATAATT	CCTTCAGTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTGAGA	CAGAGTCTCA
43801	CTCTATCACC	CAGGCTGGAG	CAATCTCAGC	CAATCTCAGC	TCACTGCAAC	CTGCACCTCC
43861	TGGGTTCAAG	GGATTCTCCT	ACCTAAGCCT	CCTGAAAACC	TGGGACTATA	GGCGTCCGCC
43921	ACCACACCAG	GCTAATTTTT	GTATTTTTAG	TAGACATGGG	GTTTCACCAT	GTTGGCCAGG
43981	CTTGCTCTCA	ACTCCTGACC	TCAAATGATC	TACCTGCCTC	AGCCACCAA	GTGCTGGGAT
44041	TACAGAAAGT	AGCCACCGTG	CCCAGCCTTG	GTCTGAATT	CTTACACTGA	ACTGCCTATG
44101	TGGCCTCACC	ACTTGGAAGC	CTGACTGGAA	TCTCAAACTT	AACATGTCCA	AATGCAGATC
44161	CTTGATTTAC	CCCAAACCTG	TCTTTCTCTT	GCCTTCACCA	TCTCAGAAAT	GGCATTGCCA
44221	ATTACCCAC	TGCTCAGGCC	AATAAAATTA	AAATAAAGAA	CAAAGTCAAC	TTTAACTCTT
44281	CTCTTTTCA	GGGGGTCAGG	GGAGACAGGG	TCTTGCTCTG	TCACCTAGGC	TGAAGTACAG
44341	TGGCACAGTC	ATGGCTCACT	GCAGCCTCAA	CTTCCTGGGC	TCAAGCAATA	CCCTCCACCT
44401	CAGCCTCCCC	AGTAGCTAGG	ATCACAGGTG	CATGCCACCA	CACCCAGCTA	ATTTTTGTAT
44461	TTTTTGTAGA	GAAGGGGTTT	TGCTGTGTTG	CCCAGGCTGG	TCTTGAACCT	CTGAGCTCAG
44521	GAATCTGCTC	TCCTTGGCCT	CCTCCTTGGC	ATGAGCTACT	ACACCCAGCC	AATTCTTCTC
44581	TTTCTCTCAC	ACAACATAGA	ATCCTTCAGC	AACTTCTTTC	AGAATATATT	CAGGAGACAA
44641	TGGTTTGTC	CTCCCTTTTC	TGTTCCCACC	CAGCCCACTC	CACTACCTCT	TGCCTGGACT
44701	GTGTAACAGC	TTCTTGGCTG	GGCTCCCTGC	TTTTACTGTT	GCTCCCTTCA	TTCTGCTTTC
44761	CACATAGCAG	CCAGAGCAAT	CTTTTAAAG	CCTGTGACAG	ATCACTGTTA	CTCCTTGGCT
44821	AGAAATCACA	CCACAGCCTA	CAGGCGCCTG	CACAACCTTG	TTTGTGGCTC	CTCTTCTGAG
44881	CCCATTACCT	ACTTCTTGGC	CTCTACTCCC	CAGCACTACT	TGTTTTATTTT	TTTCAACCCG
44941	AGCTTCTTAA	CCAGGAGTTT	GTCTACTAGG	TGACATGTGG	CAAAGTTTAG	AGACATTTT
45001	GGTTGTCAAG	ACTGGGGGAG	TGCTCCTAGC	ACCTAGTGAG	TAGGGAGGAC	AGGATAGTGC
45061	TAGACATCCT	ACATGCAGAT	GGTAGTCCCC	CTTCCCACCC	CCACGCCGCC	CCCCCCCCCC
45121	ACACACACAC	ACATGAGTAG	TGCTGAGAAA	ACCCGCTTTT	TAATCCAAC	TGCCAGGCCC
45181	ACTCAGTTTG	CCTGGGAAAT	ACTGCTCCCA	GTCAATATCA	TTCTTATTTT	CTTCATGTCT
45241	CTGCTCAAGT	GTCAGCCCCA	GAGTGACTTG	CCCTGACTTC	TCTGCTTCTC	ACAACACCCA
45301	TGATTTCTCT	ATGTTGTATA	TCTTTCTGCT	CATTTGCTTA	TTGTCATCTC	TCCCACTAGA

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45361 ATGCAAAATA TCAAAGGGTA AAGACTTGTT TCCCTGCTCT CTCCCTTGGG GCTTGAACAG
45421 TGCAACACAT GGCTGGGACT CATTACACT TGTAACAAT GAATATTTCT GCTCAACATG
45481 AAATTTTATT ATTCAACCTC TAATGCAGTG TGATGTTTAA GAATCATAGC TATGAAGTGG
45541 AGACATGAGC TCTGCCACCA AAGCCCAGTG TACCATTGAA TAAATTTGCC AGGAAGCAGG
45601 CCGTGCCATG CCTCATTCTT GTCATGTGTA AAATGTGGAT ACACGTAGTA CCAAAACTCA
45661 AAGTGCTGTG CTGAGGCCGG CGTGTGACCC ACAGAACACT GTGCTACACT ACAGGGCAAA
45721 ATCACTGTCA ACTAAGATTA GAAGCAGCTG TAGTACTTGA AATAACATCA GAAAACCAGA
45781 TTATTTATGT TCTTTGTAAC CTGAAAAGAG TTATATAATC TGAATTCAG TTAACTTCTA
45841 GTAAAATAAA CGTATTATTA GCTCCTACCT CCCTATGCCT AGTGAAAATC AAATAAGATC
45901 AGATATGAAT GTAACCTAGA AGTGAGTGCA TTGCTTACAT GTTCATTATC AGTACTTTGT
45961 AGAGAGGCCCT CTTAATTACA CAGCACATTG CAAATCAATA AAGCCTAGCC GAAAAGAGAA
46021 TTGTTTCAGTT CAAACGTTCA AAACCTAACAT ATACTTAATT TTCCAGGCAA AAGAACAATT
46081 GCCAAGAGTG GGGAAAGGCC CGAGGTAGGC CTCTCTCAGG AGCCTCCCAC CCTAGAGACC
46141 TCCACCCCAG GTCTCACCAA AAGTGGGTGG AATGGTGAAG AATTCAGATC CCAACGCCA
46201 CTCTTTCGCG CCCCCACCGC CCAACGCATT CGTTCTGAGG TGGAAACCCC GTGCGGATCC
46261 TGCTGTGGGT TTGCTCAGCC TTCTCGGCAA GCACTCAGGG AAGAACTTCC TGTGAGAGA
46321 TGACTGGGGA AAAAAGTGA CAGCTGACAT TGGAAATAAA CCCGAGTTCC AGGTTCAAGG
46381 AGCCCCAGGC TTAGCTCAGC TCAAGTGAGG AACTACGAGA TTTATTTAAA AGCATTCTAG
46441 TTGGGGGAAG GGAGTGGGCG GTTCCAAAAG TCACTCCGCA GAGCCGGGAC AGCCGGGGGA
46501 GGGGGCAGGT CCTGGGGCGA GGGACCCCTA TCTGCAGTTC AGTGGTAGGC ACTCCCTCAC
46561 GGGGTCTGGA CGCAGAAAGT AGGGAGAGGG GCTTGCGGAT AGGGTTGAGC AGGTCTCCA
46621 AAGTTAGCAA ACTCCCAAGC GCAAAGAAAA AGCTAGTTTC GATTTTCCA CCCCCCGCGC
46681 GCCCCTAGTT CGCCCGCAGC CCTCGGACTC ACGCAGCAAG CGCCCCTGCA GGACCGCGGT
46741 CTGCAAAAGC ATCAGGAGGA GAAGCGCCGG CCTGGCTCGC GGGCCCATTT CCCAGCTCT
46801 GGCCGCACGT CCCCCTTAAA TCTCCGCTTC TTTTGGGGGG CGGGGAAACG GGGATGGCTC
46861 CAGAAGTCAC CCTACAGCTA TTGCCTAGGC TCAGGAGATG CCCAGTAAA CTTCCTGGTG
46921 AAAAGCAACA GGTCTTTCAG AACTTTAGTT CTCTCTCTCC TACAGCAGAA GGTACCTGCT
46981 TGTGAAACAC TAGGTGATCC AGTGTCCTCC TTGGTTTTTA AATCCTGAAG GGGTGTGTGT
47041 GATTGGGGAA AGTAGCTTCG CAATGTTCTG ATCTGAACTT TAGATATTTA AATATTTATG
47101 ATTTTCAAAA TTCAATCATA CATTTAAAAA TTTTATCTCA ACCTTAGACC AACTTATGTC
47161 TTATTTGACT TAGAAATATA AAGCTTTTTC ATTTTGTTTT TTGATTCAAA TTAATTAAGT
47221 CATAACATTA ACCAATTAGA TCCTACTGAA ACACCTTCCA CAGCCTTCAT AATTGAATTA
47281 TCTGACAAGT GTTTCACAAA CTTTACAGTA TTGGGATTAT CTGGAGAATG ATTAACATA
47341 TTGAGGCCTG CTCCTAACCC CAGACACACT GATTTAATGG GTAATTGTTA GGTAAGTAGA
47401 CATTAGCAGT TGGGAGGGGA TGACAGAAGA GAGCGGAAAG GCTGTCACTA AGACAGCCAC
47461 TGGCCACCT AAATTCAGGC CCAAGACTAC CCTAATGCCA CCCTAAGGGA TGGAGTTTAT
47521 GATAAAGTCT GTGGCCAAA TATCCTGGAG AAAGAGAAAG GAGGGTACAG GTGGAAATTC
47581 CCTAAGGTGG CACATGCCCA ACAACAAAA AGCCTGTCTT CAAGTTCACC CCAAGTTCAT
47641 CATGCCATCA TTATAATAGA ATTTACATAC AGTTTTGCCC CCCCATCCCT GGGAGGCTTT
47701 TCTTAACAAA TTATAGGTAA GACCATGCAC AGTTTAATTT TAGATTGTAT AGCTATACAC
47761 TTCAATCAAA TAACATCATC CTGTCACTCA GATACAGCCC AAACCTCAAC TCCTCCCCAC
47821 AAACCCCAT AAGCACCTT GAGCTCTGTA AAGAAGTGCT GAGTTCACCT CGCAGAAATA
47881 AGCCCGCTGT CCCTCAGAGT GTATTATTGT GCTTCAATAA ACTTTGCTTT AAGCTTGCAT
47941 TTTGGTGTTA GTTTGTAGTT CTTTGCTCAC TATCACAAGA ACTGAGATTG CTGGTTCAGA
48001 GCTCCGGCTA TAATAATCTC CTCGGTTAAA GGATCCATCC CAATGCATAA TTCCAGTAA
48061 CAGTATGGGA TGCCACCTGG GCAATGGGAT TTTAAAAGCT TTCTTCTCC CTCAACGAAG
48121 TTTGGGAATT ATTGCCTTAG ACATTTCAAA CAATATTAAT AAATTTAATA CACCTGATTT
48181 GCTCCAAACC TTTACATATC TAGCAAATTC AACAGGCATT ATTTTGTAA GCATGTATGC
48241 AAATTTTGGC AATTCAAGAA AATCAACAG GATATCAGGG CCTCGACTGT AGGCAACAG
48301 ATACAATAAC ATTGGAACA TGTAGAATAT TGATGATGGG CACATTGGGG CTGATAGTAC
48361 TATTCCTTTT TTTCAATTTT TGGTAAGATA TAATTAGCAT ACCATATAAT TCATCTATGT
48421 AAAATGCAAA AATTGGCCCG GCTCAGTGGC TCACGCTTGT AATCCAGCA CTTTGGGCGG
48481 CCGAGGAAGG CAGATCACCT GAGATCAGGG GTTCGAGACC AGCCTGGCCA ACATGGTGAA
48541 ACCCCGTCTT TACTAAAAAT ACAAAAATTA GCCGGGCGTG ATAGCAGGCA ACTGTAATCC

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48601 CAGCTACATT AGAGGCTGAG GCAGGAGAAT CGCTTGAACC CGGGAGGCGT AGGTTGCAGT
48661 GAGCTAAGAT CGTGCCATCA CACTCCAGCA TGGGAGACAA GAGCAAGACT TCATCTCAAA
48721 AAAAAAAAAAT TAGCTGGGTG TGGTGGCATG CACCTGTAAT TCCAGCTACT CGGGAAGCTG
48781 AGACAGGAGA ATCGCTTGAA CCTGGGAGGC GGAGGTTGTG GTGAGCCGAG ATCATGCCAT
48841 TGCACTCCAG CCTGGGCAAC AAGAGCGAAA CTCCGTCTCA AAAATAAAAT AAATAAAATA
48901 AAATGCAAAA ATTAATGGAT TTTAGTATAT TTACAGAGAT GTGCAACCAT TACCAAAATT
48961 TTACATTTCT ATCTCCCCAA AAAGAAACCA TGTTCCCCTA ATTCAGTACC CTTAATTCAT
49021 CGCCTCCAG ATTCTCCCAT TCTCCTCCTC CTCCCCTCCC AGCCCTAGAC AATCTTTAAT
49081 CTACTTTCTT TCTATTTGGA ACATTTAGTA TACATAGAGG CATATAATAT ATTGCTTTGC
49141 CGTGACTGGC TTCTTTTCATT TAGCATAATG TTTTATGTGTA TGTTTTTCAT GGACCAATAA
49201 TATCTATTAT AAGGACATAC CACAACATAT TTTATTTATT CATTCATCAG CCGATGGACA
49261 TTGGTTTGTG TCTACTTTAT GGCTATTGGG AATAGTGCTG TTATAAACAT TTATGTACAA
49321 GTTTTTTTGT AGACTTATGT TTTAGTTTCT TTTGGTTATA TATCTAGAAG TGGGTTTGCT
49381 GGGTCATATG GTAACACTGT TTAACCTTTT GAGGAATTGC CACATTCTTT TCCAAAGTAA
49441 GCATTTTATC CTCCTATCAG CAGTGTATGA GAGTTCTGAT TTCTCTCCAT CTTGCTTGG
49501 GTTTTTGAAT CAGGGCCCCA GATAGAACAA AAATGTGGTT ATTCAGTTGT TCCACCATCA
49561 CTTGTTGAGA AGACTCTTTT TTCATTGAAG TGTTTTGGCA CCCTTATCAA AAATCAATCT
49621 ACCATAAATG TGAGAGTTTA TTTCTGGAGT CTCAATTTTA TCCCATTATG CTATAATCTA
49681 TAATCCTATC TTTTTTTTTT TTTGACAGAG CCTCACTCTA TTGCCCAGGT TGGAGTGCAG
49741 TGGCCCAATC CCGGCCACTG GCTCCTCCTC CCAGGTTCAA GCAATTCTCC TGCTCAGCC
49801 TCCCAAGCAG CTGGGATTAC AGGTACCTGC CACCATGCCT GGTTAATTTT TGTATTTTAA
49861 GTAGAGACGG GGTTCACCA TGTTGGTCAG GCTGGTCTGG AACTCCTGAC CTCAGGTGAT
49921 CTGCCCACCT CAGCCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACCA CACCCAGACT
49981 ATAATCCTAT CTTTATGTCA GGACTACACT GTCTTGATTA CTATAGCTTT TTAGTAAATT
50041 GAATTCAAGA AGTTTCTCAA CTTCAAATTT GATCTTTTTT TGGAAGACTA TATTAGCTAT
50101 TCTCAGTCTG CTGAATTTCC CTAGGAATTT TAGGATCTAT TATCAATGTC TATTCTATTT
50161 TTGTATATGT TTTAATATTT TCATAAGAAA CTTTTTTCAT TTAACTTTT TTTTTTAAGA
50221 AAAATAGTGA AAATCAGAAC ACTGGGGGTC AGGCGCATTT AACAGGCAGA AGAAGAATAA
50281 AAACCTGTCA TATAAACAAA AAAGAAATGA CCAATCACAT TGTGGAAGCC ATGGAGTGGT
50341 TATAGGTGCC AAAGGCTGCA GAGAAATGGT GTCAGATATA CCTGAAAAT GTCCATTGTA
50401 TTTGGCCATT AAGAGACTTA GAAGACTTAA GCCATAGATT GCTCAGTGAG ACCCCGAGGG
50461 CAAATGGTCT GAAGGTGAAT AGATCATTTT ACCTTTAAGA GAGCAGGTAG GAAGCTATAA
50521 ATCCAAGATT AAAAAGTTGA CTGAACTGTT AAGGAAGAAA CTCTAATCTT GAGCCACCCT
50581 ATCCTGGCTC CACCTTCTGC TGCAAGCAAA CAGAAATGCT GAAATTC AAC ACTCAC AAG
50641 GCTGGTAAGC TGGAATGAC AAAAATTACT CCTGGGAAAG TCAGATTTAG AATTAGGJCA
50701 TATTTGTTGG GGTTCAGATT TTCATGTACA CTTGGGAAAG GGTTTAGCTT ATAGGCACAT
50761 GCATGAAGGG AACTGGTATA GGGCTGTGTT CATAAGGTCA AGAGTTGAAG GCCAGGCATG
50821 GAGGCTCTTG CCTGTAATCC CAGCACTTTG GGAGGCCGAG GCAGGAGGAT GGCTTGAGCC
50881 CAGGAATTCA AGACCAGCCT GGGAAACATA GGGAGATGCT GTCTTCACAA AACAATTAAA
50941 AAATAAAATT AGTCAGGTGT GGTGGCACAC ACTTGTGGTC CCAGCCACTC AGGAGGTTGG
51001 GAAGATCACT TAAGCCTGGG ACATTGAGGC TGTAGTCAGC CATGATAGTG CTAATGCACA
51061 CCAGTCTAGG TGACAGAATG AGACCCTGTC TCCAAAAAAA GAGCTGTATC CACATCCCAG
51121 GAAAGTGGTT GAAGATCTAC TTTTCTCTGT AAACCTAATA AAGAATAGAG TGACAAATGT
51181 GTGTTGTGGA AAGAAATGGG GTGAGAGCTA CGTAGATGCA AAACAATACA TCCCCACATA
51241 CCCTTGTTA ATCATCCTTT TCCACCCACT TATGGGATGA ATTGCATCTC CCCAAAAGAT
51301 ACTCTGTCTT AACCCTCAGT AGCTGTGAAC CTGACCTTAT CTGGAATACG GTGAGTTCAC
51361 TGGTTAAGAA GAGATTATAG TGGAAATAGG TGAGTCCTCC AACCATGAC TGGGGTCTC
51421 ACAGACACAG AGGGATGATG GCCAGGTAGA GATGGAGGCA GAGATTGGAG TTAGTCTGCC
51481 ACAAACCAAA CACAGGAAGC TGCTAGAAGT GGAAACAGGC AAGAAAGAAAT CTTTCCCAG
51541 AGGCTACAGA GGGATCTTGG CCCTGATAAT ACCTTGATCT CAACTGGCCT ACGTAACCTGT
51601 GAGAGAATAA ATTTCTTTTG TTCTAAGCCA CCCAGTTGAT AGTACTTTGT TACGGCAGCC
51661 CTAAGGAAC TGAATATACAT TTCTTTTACT GTCATAGAAG TTTTGAATCT TTTAAGTAGG
51721 TCTGTACCT TCCTCCCAGT GTCAACACAT GGAATTCCTC TCCTTGTGCC TTGAAAAGTG
51781 AAAGGTGTTT GAAGTGGTAA TGAAAGAAAT CTCAGCATGA GGCCAGATGC TGTACCTCAC

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51841	ACCTGTAATC	TCAGCACTTC	GGGAGGATGA	GGCGGGCAGA	TCACCTTGAGG	TCAGGAGTTC
51901	TAGACTACTC	TGGCCAACAT	GGTGAAACCC	CATCTCTACT	AAAAACAAAA	AATGTTATCC
51961	TAGCCGGGCA	TGGTGCCTGT	AGTCCCAGCT	ACTCAGGAGG	CTGAGGCAGG	AGAATTGCTT
52021	GAACCCGGGA	GGTGGAGGTT	GCAGTGAAC	GAGATCACGC	CACTGCACTC	TAGCCTTGGT
52081	GAGAGAGCAA	GACTTGGTCT	TAAAAAAGAG	AAAAGAAAAA	TGAAATTTC	GCATTATAGA
52141	ATAAAAAATG	TTCCCTTCC	CCCCAACTT	TAAAAAAGCA	GAAGTCTGCA	TCATAAAATG
52201	GTCTTTGCCA	ATGTTATTTT	TATTATAACA	AAGGAATCTT	GCAAGGCTAC	CAGATCTCAG
52261	CAATTGTCAC	TATGTTCTGT	AAAAATCACT	TCCTAAAATG	TCTGAATTGA	CTGCTTGTCT
52321	CATTTATTTG	TTTCTCGTGT	CATACTGCAA	TGGATATCTG	TCTTGTTAGT	ATAAAATATTT
52381	GTGCATTTTG	TTGTTGTAA	AACAGCTTTT	TTGGCCTGTC	TTCTTCCACC	TATGAGGTAA
52441	TATAAACTC	ATGTTTAA	CTTATTTTG	TAGCAGGACA	AGCTACAGAC	AAAACCCCTC
52501	AGACACTGAG	TTAAAGAAGG	AAGGGCTTTA	TTACAGCTGGG	AGCTTTGGCA	AGACTCACAT
52561	CTCCAAAAAC	CGAGCTCCCT	GAGTGAGCAA	TTCTGTCTCC	TTTTAAGGGC	TTGCAACTCT
52621	AAGGGGGTCT	GTGTGAGAGG	GTATGATCG	ACTGAGCAAG	TGGGGGTATG	TGACTGGCAG
52681	CTGCATGCAC	CAGTAATCAG	AACAGAACAG	GGATTTTTCAC	AGTGTTTTTC	CACACAATGT
52741	CTGGAATCTA	TAGATAACAT	AACCGTTAG	GTCGGGGGTC	AATCTTTAAC	CAGACCCAGG
52801	GTGCAACACC	AGGCTGTCTG	CCTGTGGATT	TCATTTCTGC	CTTTTAGCTT	TTACTTTTTC
52861	TTCTTTTGA	GGCAGAAAT	GGGCATAAGA	CAATATGAGG	GGTGGTCGCC	TCACTTATTC
52921	ACCCCTTTG	AGAATCTCAC	TCATTAGTGG	GAGTCTCAC	TTTTATTCTC	ACTACCTATG
52981	TCTTCTTGAA	AGACAGATTG	ATAATGATTC	ATATAGTACA	CTTGTGCTGA	AGCATTTTGG
53041	TGAGCTAAGG	TAGTGATGAA	GTCTTTTATC	ATTTGGAGAA	GTACAGGTAG	CAAACAAGGA
53101	AGCAGTAAGC	AGGTTTCTAT	TAATATTATA	ACTCCTATTA	TAAGAGTTT	AAATCTTCTT
53161	AGCACTCGGA	ACCATTTTTT	AAACATGGCC	CCAGAAACAA	ATCCATACCA	CACCTACATG
53221	GGCACATGTG	CCACTTTTGT	CATATTCTA	ACTATGTCTT	CAACTACTTG	CCCTTAATCA
53281	TCTATGTGTA	GACAGCAATT	AGTAAGGTTA	AATTTCTTAC	AGACCCCTCC	TTCAGTTGCT
53341	AGCAAGTAGT	CGAGAGCCAA	TCCATTTTGA	TAGATAGCAT	TTTGCATCTG	AGTTTCTTGC
53401	CAGGCCACAG	TAGTCAGGGC	CTGTCTGGT	TTATTAGTAA	TTATTCTTAA	GACAGCTTGT
53461	AACCGTATGA	TTTCTTGGAG	CATGTAAATG	GGGGTCCCAT	ATCCCCACAA	GCCGTCTTGT
53521	GCCCAAGTAG	CAGGCCATA	ATATTGTATG	ATTCTCTCAG	GGGGCCATTC	ATTATTTTTC
53581	CAATTTTCTA	TAGCTATGCT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTGGG
53641	GAAGCATATA	CAGGGAAGCC	CAGGAGTTTG	CCTGTCTTTA	TGGGCAGTAG	GAAGAAAGAT
53701	GGTTTAGTAG	TGTCAATAAC	ACAACCTACCT	GCCCACTGGT	CAGGTAATTT	GGCATAAGCT
53761	GTATGCCAC	ATATCCAGTA	TAATCCAGTG	GGGGCTGTCC	AGTCCCGGTG	GGACTCTGGG
53821	TGGGTCCACA	CAGTTTGCAA	CTTTGGGAAT	TTACTAAATA	GATTTTCTT	AGTGTGCTTT
53881	GAACCTCACT	AGGTGGCTGT	TTTTATAGTA	CTATTATACA	GTTTTTGCCC	AAGGCAGCTG
53941	AGTCTTCCCA	CAGGAAGGGT	GAAGTCCTTC	CCCACTTTTG	CTATACAGTA	TGTCTAATG
54001	ATTGAGGCTT	TTAGGACCCA	GAAGTTATCA	GGGTGAGTCT	TTTGAGCTGG	GAATTTATCA
54061	GGAACCTGGG	CTGTAGGTAC	TAATCTCTGT	GCTTCCCATG	GCCATTGATC	TCCCATTACA
54121	GTTCTCCAC	ATACATACAT	AACATGAAGT	GACATTGAGA	GACTGGGCTA	CATGCTCAGC
54181	TAATTGCAAA	AACAAATTTT	TTGTTTTTCC	TGGAATTTCT	AGTACTGGCA	CATTCAAGTC
54241	ATCATAAGAA	GGTTTGAAAT	ACTGGCTCAG	GGGAGCATTT	ATAAACTTCT	CCTCAAACCA
54301	CCATATTTAC	TCAAGGATCC	AGTCCAGCCC	CAACTATTTT	TAAGGTTACA	CGATCCCTTT
54361	TTTTCCAGTG	AGAATCAAGG	GGGTGGTTA	TTACTAGTTC	TAAGGGGTTA	CACTGACCAC
54421	TGGTACAGGA	AGGGCCACTT	TTCCCTTCT	GAAGGTGGAC	AGGATTCCTT	TTATTTTFTA
54481	ACCAAGTTGC	CTAAATGACA	CAAGACCAGT	ATCTACATTT	ATTTCCACGC	AGCTTAATT
54541	CATGACAAGC	GTAATTATTT	TCTGCCATAT	AGCCTCTTTC	CTAATGAACA	GAACCACATC
54601	CTATTTCTAA	CTTATTACTA	TTAATGACAG	CACAGGCATC	AAATTTCAAG	GTGACTTGTT
54661	TGGGCATTCC	TTTTTCTTCT	GTTTTGGCTA	ACACTTTACT	CGTATCGTTT	ATGAACCCCC
54721	ACCAGTCCTC	AGTCCTCAAT	CTTATTTCAA	AAACTGTGGT	CGTGGGAGGC	TCAGATGGGT
54781	CATAACACAC	ATCAGGTTGG	TCATTTCTTG	GGCTACCTAC	CTTGTATAGA	ATAGCATTAT
54841	ACAAACAAGT	TATTTTGA	GTCTTTGTAC	ACTTATAATA	ACCATAAAAT	AATAAGACTG
54901	TAGCAACTTT	TTGTCTACC	TCAGTGACTT	GATGTATACA	CTGGGAACAG	CCCTCAGTCT
54961	GAGGAAGGTT	AGTTGAAGTC	TTTACTGTGC	AAGTCCAAAT	TTTAAGGAAA	ATGAGTCCCT
55021	TGATGAGTTT	TCTCATGTTT	CGGCCATGCA	TGGACCAGTC	AGCTTCCGGG	TGTGACTGGA

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55081 GCAGGGCTTG TTGTCTTCTT CAGTCACTTT GCAGGGCGTTG GCGAAGCTGC CACGTACAGC
55141 TCACAGTCTA CTGATGTTCA AGGATGGTCT TGGAAGTTGG GCCCACTAGA ATTAAGTGGAG
55201 TCCAATACCT CTACTCAGTC ACTTTCAACT GGGCTTTCTG ATACCAGGAG CAAGGTGGCA
55261 GGTTTTAGGG TGTTGCAAT TTCAATGGTT ATGCAGGGAT TTTACATAG CAACTTTGG
55321 TACTTGGTTA ATCTAGCATT TGTTAGCCAA TGATGTATTT ATTAAAGTCA CCACAGCATG
55381 GAGGGCCTTT AAGTTTAGGT TTTGTCCAAG AGTTAGCTTA TCTGCCTCTT GTGCTAGCAG
55441 GGCTGTTGCT GCCAAGGCTC TTAAGCATGG AGGCCAACCC TTAGAACTC CATCTAGTTG
55501 TTTGGAGGCC CAGCCTCGGC CAGGGCCCCA CAGTCTGGGT CAAAACCTCA ACCGCCATTT
55561 TTTCTCTTTC TGACACATAG AGTGTAAGG GTTTTGTCAG GTCAGGTAGC CCCAGGGCTG
55621 GGGCCGACAT GAGTTTTTCT TTTAACTCAT GAAAACTCA TTGCTGTTGG TTGTAATAGA
55681 TGTAGTTTAT CCAATCTACA TTTTATTAA CTGTCACCCA CCAAATATT GACTCAAATC
55741 CTGCAGCTAT TTGATTTTGG GATTTAAAT GATCTGCTAT TCCCTGTGGG ACTCCAATTG
55801 CATCTAAATA GATGTGAGAG TTGAAAGACA CATAAGGGTC TTCTCTTGCT TTACGATGTC
55861 TTATTTTTCC TCCCTCTGGT TGATGAAATG CTAGGGTGAA AGGGATAGCC AATTGGACTA
55921 AAGTACAAGT GCCGCTCCAG TTATTTGGCA GAGTGCCAG TAAAGGTCCA CCACAATACC
55981 ACCACACATC CGCTTGGGGA TGAACAAAGG CTGACTGATT GAGAAGCTCC TGAAAAATCT
56041 TAAGCTCACT GCATCCCTTC AGGTCTCCAA GGAATGCTAA GTTTCCTCCC TGTCATGAGA
56101 GACAAGAAGT GAACTTAGTT TTGGGAGATG GAAGCTGGAT GGCCCTCAGG GGTGACCTG
56161 CAGGGTGCTG GACTTTGGGA TATAGCAGAG AGAGCTTGGC ACGACTTATT ACTCCAGGCT
56221 GTAGAATCCT GGAAAACAGT TACCATGCAG CCCATGCCTG GTCAACAGGA GGACCACCTT
56281 AGTGGAAGG GGATAATCTG GCCCTCTGGC CTGCCATGTG CACAAGCATA ACAATTGGTT
56341 TTGTTTAATG TGTGGACAGA ATATTTGATC CATTCCAAC TGGCATTGTC ATCTTGGTAT
56401 CCTGCTTAAT TATCAAAGTT TGTTTTAAGT CTTTAACTTC TATGACCCTC TAGTAAATG
56461 AATGTATGAT TTTAGGAAAT TACAAAACC GGTGGGGCA GTCCATCCTT GCTCTTAGT
56521 GGTCCACACA ACATTCGACC AACTATGGCA TAAAGCTCT ACATCGGGGG GCAAGACTCC
56581 TCGTTGACAC TGGGGTCTTT ATTGAAATCT CTCTGGAATA AATGGTCTCA GTTTACTAAG
56641 GCTCAGTCTG AGGAGAGTCA GGAGGGACAG AGGTACTTTT CTGAAGTACA GAGATGTCTT
56701 CGACTTGGCA AGTCCCCACA GGGTATAACA AGGCAAGCAT TAAATTCAAT AGTTTGAGGC
56761 AAAATTGACT TGGTTATGTT AATAACTAGA TGGTCAGAAA TAGAGTGAGG GAAGAAGAAA
56821 GAGTAATAGA ATAGATGAAG GAGTTAAAT TTTCTTAGCT TTAGTTTGGT AGGGTTTTC
56881 CCTGGGACTA TGGCCCATGA CTCTGGAGGG GGTGGCACTT TCTTGACTCG GGTGTGATGA
56941 GTCCATCCCT TTTTCACCGT ATGAACAACA GTCTCGGTGG TTAGCAGCAC AAGGTAGGGT
57001 CCTTCCTAGG CTGGCTCAAG TTTTCCTTCT TTCCACCCTT TGATGAGAAC ATGATCTTCA
57061 GGCTGGTGCT GGTTTACAGA AAATTCTAGG GGTGGTACAT GTGCTAAAAG ACTTTTAGTT
57121 TTGAGGGAAA GGAAAGTGGA AGATAAACCA AGTATATAAC TTTTAAGAAG TTGACCTTTT
57181 GTTTTAAATG TGGGGACATC AGCAGTGGAC TTTATAGTCC TTGGTGCCCT CTTACTGAGA
57241 AATTCCTTT AGCACCTATT TTTATTAGTT TTTAGACCAA AGAAAGTCAA ATGCCATTTT
57301 ATATTGACA ACGCTTCTTG TATGTTTATA CCAGATAAGC TAGATTTTAC CTTTATATTG
57361 GTGTGTTATT AATGTTAAAC TTAGTTTTAA TAAACTCTG TAGACATATT TATTTGATTT
57421 TTAATGTCTG ACCATAAGGT AAGATTTTAA TAGACTTTTC TTTAACCTTT TATAATTTTT
57481 GTTAAAGAAC AGGTAGTGC TTTAAGAAAA ACCCGTTGTG TTTTATTTT AATGTTTCA
57541 TCACAGAAAA ACTGTATGAT ACCCTTAAC TTTAGCCAAT ATGTTTAGAC ACAGAAATTT
57601 CTTTACAAAT AAGGTTTCAA AACTTGCTTA AACCTTCAA ACAATTTTGT TAACCTTTTA
57661 ATGTAGGTAA AAATCCACAT TCTTATGCAT CCTCATAATC CTTTACCAC AGGTATATTT
57721 TACTTTCCTT ACATACCTTG CACATAAAT GTTTATTCAA TAGTTTACCA TTTAGAAGGA
57781 GGCCTAATTA CTTTAAATTT ATACAACATT TCTTACATAA ATTTATTTT CTAACACACA
57841 TTTTTTTCAT GACTTTCACA GACAATCTT CGACATGCCT CAACTTTCTG ACTTATTGCA
57901 AACATCCCTT TCTTTAAACA ACTAGTTAAT TTATCTCAGG ACAAGGATTT TCCATACAAC
57961 ATTCTTTTTT ATATAAATTC TGCCTCCTCT TTATTTCTCT TTTTTTTTTT CCGAGGATGA
58021 TAACCATTCT TTTCCAAAGC GAACTTCTTT TATGTCTGTG GACTAGACTG TCTAAGGCCA
58081 CAAGATTAGA AGTTACTATA ATACATGTTA CACTGTTAAC TTTTAGCAAA CTTTACTTTT
58141 GTTGAAGAAC TTGTAAGTTT GGGATTTCAT TTATCCTTTG CTATTAATAA GACCTTATTT
58201 AGTCCAAAT AACTTAGAAT TGGTATAGAT GGCTTTTTTT TTTTTTTAAT TACCTGGGAG
58261 GAACCATCTA TCCTCCTGTC CTGAAGGGAG TTCTCCTAG GTCTGGTCAG AGCTTTGTAT

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58321 GGTAATTAAG ATTTAGATCC CCTGTTAGGA AACCTGCCGG GTTAAGAGAA TTTTCAGTGG
58381 TTAATGTAA ATCATCTTCT TTTTCTTTT TTCCTTAGGA TACTTCTGAA CCGGTGAGGT
58441 GTGCTCACAA TGAGGTTTCC TGAAAAAGTT ATTTTTTTTAC TTTCTTCTGT TAGCAAAGCA
58501 GTTGCCGCTA CAGATTGAAT GCATTTGCGC CATCCGCGGG TTAAGTGGTT AAGGATTTTT
58561 GATAGGAAGG CCTTAATGCT TTTGGAATAT GCCCTGACAA CAAAGTGCCA GTTCCTTCCC
58621 GGTGTTTTCAGC CACTGCGTTG ATCCTCCACG AGGGCCTGCC ACGTGCTGCT CTGGTGAGGC
58681 GTTCCACCGG GGCAATTGCC TACCTGGGAG CGCTCTCCAG ATCTGTGTCG CTCAAATGGC
58741 CTGGAGTTCC CCGTAGGGAT GCTCCACAGG GCAGGCCTAA GTCGCCTAAG GGGCTGCCTT
58801 GACCGTCCGT TAATCACCTC TGTCTCCAAA AACCAGCTCC CTGAGTGAGC AATTCTGTGC
58861 CCTTTTAAGG GCTTACAAC TAAAGGGGGT CTGCATGAGA GGGTCGTGAT TGATTGAGCA
58921 AGCAGCGGGT ACGTGACTGG GGCTGCATGC ATCAGTAATC AGAACAGAAC AGAACAGCAC
58981 AGGGATTTTC ACAATGCTTT TCCATACAAT GTCTGGAATC TATAGATAAC ATAACCTGTT
59041 AGGTCAAAGG TCGATCTTTA ACCAGACCCA GGGTGCGGTG CCGGGCTGTT TGCCTGTGGA
59101 TTTCAATTTCT CCCTTTTAAT TTTTACTTTT TCTTTCTTTG GAGGCAGAAA TTGGGCATAA
59161 GACAATATGA GGGGTGGTCT CCTCCCTTAA TTTAAACAAA ATTTTCAAAG TCCTACCCCA
59221 AGTAAATTGG CAAATATTAA TAAAGTTATG GCATAGAAAA TAAAAATGAT TGTAAAAGGC
59281 GTAAAGATAT TTCTGTGGGG AAAACATTG TTCATTAGTT ATCAGTTAAA ATTCTGTGAA
59341 AAATAACCA TAGAGACCCT AAAGTACCCA GGGGCTAATA ATAAGAAGGG AGGAACACCC
59401 TCTCACTCCC CACCGTTACC TGCCCGAAG GGAAGAGGAA GAGGGTGACT CCAGGAGAGC
59461 TGTGGTCTCC CCTCCCATATA TGCCACATA TACCTGACCT CCCCTCCCCA AAATATATAC
59521 CCAATATCTC TCCCATATAT ACATATTTAT CTGACCTCTC CACATATGTA TACCTAACT
59581 TTCTCTATAT ATCCACATAT ACCTAACCTC CTCACACACA TATAGCTGAC CTCCAGTGGA
59641 GGAAAAATGGG GAAGAGAGAA CAGGTTATCA AAGGATAAAT CTAGGTCATA CTGAGAAATG
59701 TGAAAAACAA AAACCACACA CAGAAAAAAA AAACACACAC AAAAAAGAAA TTGATAAATT
59761 TGTTTGTGTC AAAATTAAGA ATTCCGGTTC AATGAAGGAT CCCATGGATA AAGTTAAGAC
59821 ACTGCTGTAA GGATGGTAGA GAATTAATG TCTGAATCAG ACGAAAGGAT GAGTAATTAG
59881 AATGCACAAG GCCAAGAAGA ACAAACAGA AACTCCACAT AAAAAATGTA TGAGGCCGGG
59941 CGCGGTGGCT CATGCCAGTA ATCCCAGCGC TTTGGGAGGC CAGGGCGGGC CGATCAGGAG
60001 TTTGAGACCA GGCTGGCCAA CATTGTGAAA CCCCATCTCT AAAAAAATA CAAAAATTA
60061 GCCGGGCGTG GTGGTGGGTG CCTATAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT
60121 CACTTAAACT CAGGAGGCAG AGGTTGCACT GAGCTGAGAT CACACCATTG CACTCCAGCC
60181 TGGGTGACAG TGTGAGACTC TGTCTCAAAA AAAAAAAAAA TTATATATAT ATATATATAT
60241 ATATATATAT ATATATATAT ATATGAAATA AATGAACAAG AAATTTAGAT ACAGGAAAAT
60301 CCAAAGCACT TGGTAATGAA AGAAAGGTAA AGTGATGTGT CCTTTTGCAT TTAAAGAGA
60361 GCATTAACAA ATTAGAGAGC TGAATAATGC TCAGTATTGG TGTGGATATG GAGACTCAGG
60421 AATCCTCATA CACTGCTGAT GGGAGTGCCC ACTCCCTGGG AATATTTTCC AAATATCATC
60481 TCAAACATAT CCCATAAAGG TGACAGGAAA GTGTGGGCTG ACTGATATCC TTCACTGAGA
60541 GAGGTGGAGG TAAAATGAAG TCACGTCACA ATATAGAGTT GGAAGCAATG GATTAGATGT
60601 CACATAGATT ACGTGGAAGA ATCCGTAAGA TACACACACA CACACACACA CACACACACC
60661 TTTGTGTATA TTGTTCTTGG CAGGTAGGCA TGGAGGTTTA GAGGCTTTCT ACATCACACC
60721 TACTGCACAC AGTAAATGGC CAGGCTGAGC ACTGACTTCC ATGAAGGGAG ATTGAAGGTA
60781 AGAGATTGAA GATTGTTCCC TGGTCTGGGA CCCTGCAACT GAATATGCAG AAAAAAGTAC
60841 ACCCCGCCAC CCCGCTTCCC ATCTTTCTTA CCTGATTAGA ATAGCTTTTT CAGAAAACGT
60901 TGGCCAGGGG TTGTGGCTCA CACCTGTAAT CCCAGCACTT TGGGAGGCTG AGGCGGGCAG
60961 ATCATCTGAG GTCAGAAGTT CCAGACCAGC CTGGCCAACA TGGCGAAACC CCATCTCTAC
61021 TAAAAATATA AAAAATTAGC AGGGCATGGT GGCACACACC TGTCATCCCA GCTACTCGGG
61081 AGCCTGAGGC AGGAGACTCA CTTGAAGCAC AGTGATGGAG GTTGAAGTTA GCTGAGATCT
61141 TGCCACTGCA CTCCAGCCTG GGCAACAGAG TGACACTTTG TCTCAACAAC AACAACAAA
61201 CCCACAAAA CTTTAAATCT ACCTATGGCC AAATGCCTGC TAAAATGAGC ACCCAAGAAG
61261 CAGTGTTTCA GAAAGTCAGA TGAATACCCT AAAATTAGAT GCAATGTTGG CTGGTCACAG
61321 TGGCTCAGGC CCTGTAATCC CAATCCTTCT TGGGAGGCCG AGGCGACAGA TCGCTTAAGC
61381 TCAGGAGATC GAGACCAGTC TGGACAACAT GGTGAGACCG TGTCTCTACA AAAACGTACA
61441 AAAATGAGCT GGGAGTGGTG GCGCGCACCT GTAGTCCAG CTACTCAGGA AGCTGAGGTG
61501 GGAGGATCTC TTGAACCCAG AAGCGGAGAG CTGCAGTGAG CAGAGATCAT GCCACTACAC

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61561	CCCAGCCTGG	ATGATAGAGC	CAGACCCCCA	TCTCCAGAAA	AAAAAAATAA	AGAGAGAGAG
61621	AGATGCAATA	TTTAGGGTTC	AACAAGACTG	AATTTCTGAC	TCCTTTCCCT	ACCTCTCCAG
61681	CATGTTAGAT	TCTGGGTCCT	TCATCCTAAC	CCCCTGTTCA	TGCCATAGCC	ACCCTGTGGT
61741	ACCAACTTTG	GAAGCCTGGA	TCTTCATCCC	CTCATGATAA	TGAGTGTCCT	ATCAGGTCTC
61801	CATGCTCAGC	TTGGCAAGAG	TATCTGTCTT	CTCCTCATGG	GACGGTCACA	TTCACCCAGC
61861	ACTGACAGGT	TCCATTCCCA	CTAGGGTGGC	ACCCTATATG	GTCTGAGTCC	AGGCCTTCCT
61921	GGTCCCTCAG	TAATCTCAGC	ATGGTAGCAC	AATCGAAAAG	GGCTAGGCAC	GGCAGCACCA
61981	TTTCCACCA	AGAGGTCTGA	TGGCTCATCA	CATAGACTGA	AGGAGATTCT	GAAGAGCAGA
62041	GGTGGAATGA	AGAATGAATC	GTGGGCTCTG	CTCTTCCTAG	GCCTGTCTTC	CTCTCTCCCG
62101	AGATGTTAGC	TAACTCATGA	GAGCCAGAAA	CCAACTGCAG	GCTGGCCTCA	GGCACTTAGG
62161	TAGTGCTTCA	GCCTCAGCAG	TCCACATTCT	AGGAACCCTC	ATAATATGGG	TTGAAGTATG
62221	CATTCACCA	AAAATAAAGT	TGTTGAAGTC	CTAACCACCA	GTACTGAAAT	GGGAAAAGTT
62281	CCCTTGTCCT	GCTCGCATGG	CATGTGATAG	GAGTGTGGCT	AATTTCTTCA	GTGCCTGGCT
62341	GCTCAAACCT	CTAGGGGAAC	ATTAAGACGG	GCAGGTTGTG	GGTCTCCAAC	CCCATGACCC
62401	CACCACAGTG	TCTAGGGTTG	AATGTTTACA	GCTCCTGAAG	CCACAGTGGG	TGTGTGTTAC
62461	AGGGTGCTCT	TTTAGTTTTG	CCATTTATAG	GCAGCTGGTG	TTAACCAACT	CAATTAGACC
62521	GTCTACCTTG	TCCCAAGGAC	AGAAGAAGGC	TTTCTGTATC	CCAGGTTCTT	GCCTTGGTGT
62581	ACCGGAATAA	ATCAGACCAC	ACCTGGGCTT	AGAGAAAGAG	TGCAAGGTTT	TATTAAGTGG
62641	AGGTAGCTCT	CAGCAGTTGG	GCAAAGCCAA	AAGTGGATGG	AGTGGGAAAG	TTTTCCCTTG
62701	GAGTCAGCCA	CTCAGTGGCC	CAGGCTCTCC	TCCAACCACC	CCAGTCAAAT	TCCGCCTCAT
62761	TTTGCCAGGC	AAACGTTTGT	TGTGTGCTCT	TCTGCCAGTG	TGCTCCCCTG	GACGTCCAGC
62821	TATTTCGTGTC	TTGTGGCAGG	CCAGGGGAGG	TCTTGGGAAA	TGCAACATTT	GGGCAGGAAA
62881	ACAAAAATGC	CTGTCTCAC	CGTGGTCCCT	GGGCACAGGC	CTGGGGGTGG	AGCCCTAGCC
62941	GGGGACCACG	CCCTTCCCTT	CCCCACTTCC	ATATCATTTA	AAGGGACCAT	GCCCTTCCCT
63001	TCCCAGCACT	TTCCCCCTCC	TGTATCAGGA	CCTGTGAATG	TGGCCTTATT	TGGAAATAGG
63061	GTCTTTGCAC	TTCATCAGTT	AAGATAAGAG	TGGGCTCTAA	CCCAACATAA	AGGGTGTCTT
63121	TATAAAAAGG	AGAAATGTCA	TACACAGAGA	CTGACACCTA	TAGAGAGAAA	ATGTGGTGAG
63181	TAGACACAGG	GAGAATCACC	ATTCAAGTCA	AGCAATGAGT	CTGGGGATAC	CAGAAGCTGG
63241	GAGAGAAACC	TGGAACAGAT	TATCCCTCAT	TGCCCTCAGA	AGGAATCAAA	CCTGATGATA
63301	CTTTGATTTT	AGACTTCCAG	CTTCCAGGAC	TGTGTGACGA	TAAATATCTG	TTGTTAAGCC
63361	AACGAGTTTG	AGGTACTTTG	TTACTGCAGC	CCCAGAAAAC	TAATACAGTA	GGTACTATGG
63421	ACTGAATTGA	CTCCCCGTCT	CAAAATTTCAT	ATGTTGAAAC	CCTAACCCCC	CCTGATGATG
63481	TACTTGGAGC	TGGGGCGTTT	GGGAAGTCAT	TATATTTAGA	CAAACTCATC	AGGATGTGTC
63541	TCTCATGATG	AAATTCATGC	CCTTATTAAA	AGAGACAACA	GGCCAGGTGC	AGTGGCTCAT
63601	GCCTGTAATC	CCAGCACTTT	GGGAGGCTGA	GGTGGATGGA	TCACCTGAGG	TTGGGAGTTT
63661	GAGACCAGCC	TGGCCAACAT	GGTAAAACCC	CATGTCTACT	AAAAATACAA	AAATTGGCCA
63721	GGTGTGGTGG	TGCACGCTTG	TACTCCCAGC	TACCTGGGAG	GCTGAGGCAG	GAGAATCCCT
63781	TGAAACCAGG	AGGTGGAAGT	TGCAGTGAGA	TCACACCACT	GTACTCTAGC	CTGGGTGATA
63841	GAGACTCCAT	CTCAAAAAAA	AAAAAAAATA	AGACAATAGA	GCCAGGTGCT	GCAGCTGATG
63901	CCTGTAATTC	CAACACTATG	AGAGGCTGAA	GCAGGAGGCT	CGCTTTAGCC	CAGGAGTTCA
63961	AGACCAGCTT	GGACAAAATA	GTGAGACCCC	CAACTTCTAA	AAATTTAAAA	AATGAACTGG
64021	GTGTGGTGGT	ACACATCTGA	GGCTCCAGCT	ACTCTGGAGG	CTGAGGTGGG	AGGATTGCTT
64081	GAGCCCAGGA	GGAGGCTGCA	GTGAGCCATT	GCTGTCCAGC	CTGGGCTACA	CGAGAACCCTG
64141	TCTCGGGAAG	AGGAGAAAAC	AGTGAGACCT	CTTTTCTCT	CCTCCTTCTC	TCCACTGCCT
64201	AAGCCCTACA	AGCACAAAAA	GGACACCACA	TGAGCACATA	GTGAGAATGC	TGCTGCCACC
64261	AACAAGTCAG	GAAGAGAGCG	TTACCTTAGA	AACTGAATTG	GCCAGCACCT	GGATCTTGGA
64321	CTTCTGAGCT	TCCAGAACTG	TGAGAAAGTT	ATTTTCTT	TAGCGACTAA	GTCTATAGTA
64381	TTTTATTACA	GCAGCTCAAG	GTAACATAA	TAGTAGAAGG	GATGAATTAT	TGGAATCACA
64441	AGTCCACGCC	TCCAGAAAAA	GACTTCCCTA	AAAATTAGTC	TGAGCAAAAT	CGAATGATG
64501	AATTATTTTT	AAGAACTTTT	AAGGGATCTG	ACAAGTTTGC	AAGAGCTAGA	GAATGCTTTA
64561	CAACGTGATA	ATAGAATGCT	CTGTGATGAC	AGAAATCTTT	CCACACTGTT	CAAACTAGC
64621	TACTGGCCAC	TTGTGACTAT	TGTGCACTTG	AAATGTGACT	GGTGTCTGAG	GAGCAGAATG
64681	TTTAATTTTA	CTTAATTTTA	ATTCAATTACA	ATAGCTACAT	GTAGCTAGGG	GCTACTGGAT
64741	TGAACAGCAC	AGCTCGAGTC	TTTTAGAGGG	AGACAGGACT	CACCAAGATG	GATGCTGGTG

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64801	GCCAAGCAGC	AATGGCAGGT	AGTACACACA	CAAGAGGCAG	ATGATACAAC	ACATCCTTCC
64861	CAAACCTGGA	GATAAGCTCA	CCCCACAATC	CCGCCGCTGA	AATAGAGTTG	ATGTTACCAA
64921	TGTGCATTTT	TATGTCCTTT	TCCATACAGA	AAGATCATTC	AGCAAGTACT	ATGGTACTTA
64981	AAAAACAACA	TTCAATTCAT	TATTATGACA	AAATTAAATT	AATAGCTCTT	CCTTAAACTT
65041	TTAAATTCAA	TTTACAATGC	TTACTATTGG	CATTTATTAA	TCTACCAATT	TTTTCCCATA
65101	GAACCCATAG	AACAAATAAT	CTACCAAATT	TTTAAACATT	ATTTTTGGCA	AGGCTTTTGC
65161	AATTTGACGA	ACTTTAAGAA	GAAAACCTTAT	AAATTGCAAT	TTTTAAATCT	GACATACTGG
65221	ACTTTTAAAG	TATCCAATTG	ACTAATGAAC	AAAACCTGCTC	CAAATTTTTT	AATTCCTTAA
65281	AATCCTTAAGA	CAATACTTAA	TATGGCAAAT	CTTAACCTTCT	TAAACTTTGT	AAGAATGCTA
65341	ATCAACTTAG	ATTGGTATAA	AGTTGAGTTA	AAAATCACAG	GATACATCAT	CTCAGCTATA
65401	AGTTTTCATG	AGTTGAGTTT	TTACAATCAC	TTGAAATGCT	TAGAATAGGA	AATACGTATA
65461	AATTATTTAA	CATAAAATAT	TGTTACAAAA	CCTCTGGAGT	GTCAGTTTCT	CTGGCCAGAC
65521	TTTATGCTGC	AGCACCTTTG	CCTGAGTTCT	TGTCCTGCAT	CCAGGAAGAA	TTAGGTACAG
65581	AGGCAAGAGT	CAAGAAGATT	AGTTTTCCAA	TAGTTCAGCT	CACCTAGTTA	ACTCCTGTTC
65641	ACAATCTTCA	AAGTTATCAG	AAACCTGCAA	TTGAGGGTTA	TAATCCATT	TTTGCAGAGT
65701	TTCAAAACAA	GACAACATTT	GTCTATGAAT	GTTAAAATGT	CCTAGGGTAG	TCACAGTCAA
65761	AAACACAATT	GACAAAGAAA	TTTAGTCACC	TCTGTGATTT	ACAATAGCCT	AACACAATAA
65821	CTCTAATTAT	AACTGATGAC	ACAACTCAG	ATATCAGAAC	TCTAGAAATC	CCCTATAATT
65881	TTGGAACACA	CATTACAGT	TTTCACTGAA	ATATGACCTG	AAGATCAAAT	ATCACCTTAT
65941	TTCAACAATC	CTATATAACT	AAACGTGTCA	AATGATCCTG	TTTACCTCTC	CTTTGGATAC
66001	TCCAGGGGCC	CTCTGTAGCA	TCCAAAAGTT	AGGGGTAGC	AAAGACAATT	TTGAAGCTGT
66061	AAAGGCTCAA	AACACTTAAT	GAACCTCTAG	TCATATCTGT	TCTCTACTCA	CTAAATGCTA
66121	GTAGCACCTC	TCAGTTGTGG	CTAAGCTGGG	AGGATCTCTT	GAGCCTAGAA	GTTTGGGGAC
66181	GCAGTGAGCT	ATGATTATGC	CACTGCATCT	CAGCCTGGGC	AACAATGCAA	AATCCTGTCT
66241	CAAAAACAAA	AACAAAAAAC	AAATTGCCTA	TGCTGTGGTT	ATCTCACAAT	TAATAAAAAG
66301	GAAAAAATAA	GTATGCAGTC	TTTGTAGGTC	CTTGGGGTTT	GTTGGAATCT	AGAAAACAAT
66361	ACCCCAAAAT	AAAGACCGCA	GAAGCCAAAG	TTTTTCTCTG	ATCTTCTCCT	GCCCTCCTGT
66421	CTCTGAGTCC	CATTCTCCCC	GGAGTCTAGC	CATAGAAATG	AGAATTCCTC	TTCTCAAGT
66481	TAGGTCATAG	AAATCAAAAC	ACCTTTTCCC	CAGAGCCCAG	CCATAAAACC	TAAAAATATT
66541	ACTCTAACTT	TCCCTCTGTT	TTTCTGTGTA	AAAACCTGGC	ATAAAGAAAT	TATCTGAACT
66601	ACCTTATTTG	ATCATAGATC	ACCAGACCGC	ATTCCAGAGA	GGATCCAGAA	GGAAGGAATG
66661	CTGCACAGAG	AGGCGAAGAA	GAATCTAGAC	AGACAGGCCT	TGCTGGGTTT	CCCTACTCTG
66721	TTTATTAGCA	ATCCTATTTT	TACACGGCGG	CCCATACTTT	GTTGAATCTA	AAAAATAAAA
66781	ATGGACAATT	TCCCCTGTAC	ATGTTAATAC	ACATTAATAA	ATTGGATATA	AATTGGATAA
66841	TTTATTAATA	TACACATTAA	TAAATTGGAT	GCAGCCGGGT	GCAATGGCTC	ACGCCTGTAA
66901	TCCCAGCACT	TTGGGAGCTG	AGGCGGGCAG	ACCACGAGGT	CAAGACCACC	CTAGCCGAAA
66961	TGGTGAAACC	CCGTCTCTAT	TAAAAATACA	AAAGTTAGCT	GGGCGTGGTG	GCACATGCCT
67021	GTAGTCCAG	CTACTGGGGA	GGCTGAGGCA	GGAGAATTGC	TTGAATCTCG	GAGGCGGAGG
67081	TTGCAGTGAG	CCGAGATTGC	GCCACTGCAC	TCCAGCCTGG	TGACAGAGTG	AGACTCCGTC
67141	TAAAAATAAT	AATAATAATA	ATAATAATAA	TAATAATAAT	AATAAATTGG	ATGCATTTTA
67201	TCCTATTAAT	CTTCCTCTTG	TCGGTGGTTT	TCAGCGACTC	TTCAGAGGCC	AAAGAGTAAG
67261	TTTTCCCTTA	GCCCCTACAG	GTTCTTATGT	TTAATTTGTT	ACTCTCATTT	AAGACATAAT
67321	TAAAGTGGCT	TCTCCATGAA	GATTATTTCT	GCATCCATTA	TTTGGTAAGA	TTGGCCGTTT
67381	TCTCCTTTGA	TCTCTACTTC	ACACTGACCC	ACATAAAACA	TCACTGCCTG	TTTTTTTGTT
67441	GTTGTTGTTT	GGAGACGGAG	TCTTGCTCTG	TTGCCCAGGC	TGGAGTGCAG	TGGTGTGATC
67501	TCCGCTCACT	GCAAGCTCCG	CCTCCCGGAT	TCACGCCATT	CTCCTGCCTC	AGCCTCCTGA
67561	GCAGCTGGGA	CTACAGGCAC	CCACCACCAA	GCCCGGCTAA	TTTTTGTATT	TTTAGTAGAT
67621	ACGGGGTTTC	ACTTTGTAA	CCAGGATGGT	CTCGATCTCC	TGACCTCGTG	ATCGGCGCGC
67681	CTCAGCCTCC	CAAAGTGCTG	GGATTACAGG	AGTGAGCCAC	TGCGCCCGGC	CCCGTTTTTT
67741	TTTTTGTTT	TTGCATGTCT	TCTCCCTTTT	ACTGTAAACT	ATTTCCACTA	CCAGCGTAGT
67801	TATCATTTCT	ACTGCTTAAT	AATTGTTTTG	GGGAAGTGAA	TGCATCAACC	CACATGAATT
67861	TCTTGTCTAT	TTGACAATTT	ATTCTCTTTA	GGAATAGTAT	TAACTCCTAA	GGTCCCTGGGA
67921	GCCAGTCTCT	GTAATTGGCT	GCTCCAGGGT	CCTACTTCAG	TTTCCAGCT	TCTCAGTACT
67981	GTCAGTGTC	ATTGTGGGTA	ATAATTATTT	TTGTCCACCA	AAAGACTCTG	TATGTGAATG

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68041 AGTTTTGAAA TCTGCTGAGT AATACAGTGT CAACCCAGTT AATGATTGTC CGGGCGGCTT
68101 GATCAGGGGC TGTCCAAC TA CCGGCATTTT GATTGAGG GTCATCTAGT GTCTGAAAGC
68161 ACAAACAACA TCCTACATTG TAAATGCCTT TGGCTACAGA GATTGAAACC AAAGCAAACC
68221 TATGTTTTGA ATTGTTATTC TTCAGCAGTT CTGCTAGCTT TGAAAAATCT AAAAGTTAAA
68281 AAAAAGCTTT ATATTTTCA TTCTGCCTAA ACTCTTTAAA ATTGCTAGTT GACAATTAGA
68341 TATTTTCAAT TTAATGAAAT TTTTTTTTAG TTCACAGATT AATACACAAT GGGGGAGGGT
68401 TCTTATTCTG TTGGACTTTT ACATAACCTC CACTTTAGTG CAGTCTGCTT TATGGGGTCT
68461 TGTTTGAGGT GTGTGTGTGT TTAAGGGAAT GTGGTTTACA ATCAAAATAT TGGGTTGCTC
68521 TTAGGCACAT TGTAAGTCA CACACCTGTA TTCTTATTGA TACATAATGA TTAATAACAT
68581 TATTATTACA GCCTGATCAC CATCATTATT GATATATCTA AATAATGAAT TTTATAATTT
68641 TGCTTCTGT CAGGCAAGAG CCAATTTAG TGCTACCATG TTTGTATAGC AGTATTTATG
68701 TCTGTCTCC TCAGTCATTT TACTTCACTT GTTCTTAGCC AAACGGCCGA GAAGCGATGG
68761 TCATTTTACT TCAAAAATGA AAGAATTAA TATTTTACG TTTCCCTTAA AGACCCTATG
68821 TTTAACCTCC ACTCCTGGGT AAAATGGTCT AGTCCCTCCT TTTCATATCA TCTCTGATAT
68881 CTTTTCACA GCCACTATTA CCTACCGTTT TCTAGATCCC TATTCCTCAA ACACCACCAT
68941 GAAGGTAGAG CCGTGTCTGA TTTTCTCTT GTCCCCTGAA CTCAGTACAT TGTAGGCTT
69001 CTTGAAGATG TTGATCAGTT GTTGTGGAG TGAATGAATC AGCTAGCATG ATTTTCTAG
69061 ACCACTGAGA CAAGTGTCTA AGACACTTGT TCCTTCCCAT GTTCTGCTT GCCTGTGCAA
69121 TCCATGCAGT CTCATGGCTT CCCAGTGCCT CAGAATTATC CCCTGTCAAA CAGGCATTAT
69181 AATTTCTGTC CACTGAAAAG GACAAAAAAC TAAGTGTATA GCTAGAAAGT AAAAATTACC
69241 GGCCAGGTAC TGTGGCTCAC TCCTGTTATT CCAACATTTT GGGAGGCTGA GCGGGCAGA
69301 TCACCTGAGG TCAGGAATTC GATACCAGGC TGGCTAACAT GCGCAGCCCG TCTCTATCAA
69361 AAATGTAAAA GTTAGCCAGG TGTGGTGGCT CGCACCTGTG GCCCCAGCTA CTCAGGAGGC
69421 TGAGGCAGGA GGATCGTTTG AGCCCTGGAG GTTGAGGCTG CAGAAAAATA GGAATATACT
69481 CTCTTTCAAG AGTTCGTGGT TTTGACTGCC ACCTAGCGTA CATCAGAAAA ACCGCATGAC
69541 ATAGGAAATG CCTGTGACAG AGGGGTAAGG TGAGAGAGGT TGATGAAGAA TGTATTGAAG
69601 GAGTGAAGAC GCTTCCATCC CTCTACTTAC TAAATATATT AGTTAAGTAG TTGGGGCATA
69661 TTTTAATTCA TGCATTTTGT AGATAGAAAA ACAAAAGTTT TATCTGTTT GATTTAGTTG
69721 ATACTTTAAT ATGTGTGTGT TTAGAGTACA TGATTTATAA TCAGTCTGCA GCACCTCTTG
69781 GAGAAGTCTG AATTCTCATT CTCCATTTCC TTATTGGCAA CGTGAGAAATG ATTACAATGG
69841 TGGTTGTCTC ATAGAATGCA GGGAGTCAAG ATGAAAATAG TCCATATAAT CCTGGTGCA
69901 GAGGAAGGGT TCAGTTAACT GTCTGTATTA ATATTACTGA TAACAGTCAT GACAAACAAA
69961 AGCTTAACAA CAACACCACC AACAACAGTT GCAGAATTGA GCCACCAATT TGCACACAAG
70021 ATTGTAGGTA GGATGTTTTA GAAAAGTTAT TATTTAATAT ATGTATATAT TTTTGTACTT
70081 AAAATATGTC AGAGGTTGTT CTAAGAACTA TTTAAATGTT AACTCCTTAA TCCTCATAAT
70141 GACCCATGAA ACAGGTAGGC TTATTATTGT CTCTTTACAT GTGAGAACAC TGAGACACGA
70201 AAAGGTTTAT TAACTACCC AAAGTCACAC AGCTGGTAAA ACGGCAAAAT TGAATTTGAA
70261 CTCAGACATT CCAGGTTCCA AGACAGTCTA ATTATTCTTT TGACTAATAT ACTAAGCTGC
70321 CTCTGTATTT TTCCTTGATT ACTTTGTAAA AGTATGAGGA AAATATAAGT GCTTCAAGTA
70381 ACCATGAAAA ATATAAACAA TCTATGTATC AACTGAAGCA TAATTACAAA TCCTTTGATA
70441 AGCAACATA ATAAAAATTT GATATCAATC AAAACTTTCA TGTAATGTAA GCAGGTTGAG
70501 ATGAATTCTA TAGTAAAAAA GTGCAGAGTG CTGGAATACC ATGCTCCTAA TATATTGGCT
70561 AGGCACACCT GCCTGCTATC AAAGGTATGC ACACACCTTG GATACAGAAA GTTGGGACTG
70621 GGTAGTTATG TGAGTGTCTA CAGAATTCTT TCCCACTTG GAAAGAAATG TCCATCATAA
70681 GCTTGGATGA TGGACAAGGA GTGAGCTCCC AGAACAGTGA TGTGGGGATA CATCCTCACA
70741 TCACAGTGAG AATGAGTGTT CTAGACTGTT TACACACCTA CCACTCCTAA ATGCACACAT
70801 ATAATTGCTT GCACACACAC ACATACACAC TCATCTCTTC TCTGGTGGTC CAGCTCTATC
70861 TCTTATCATT AGGCTTCTTG GGGCTAGTAC CTAGGGCTG TATCCTTTCA GAGGCAGCTA
70921 AGGGAAGCAC ACATAATTAG AAAGAATGAA CCAGCTTGTT GGATTTGGTC TCTTCGCATC
70981 CAGCCCTCCA AGTTAAGGAG AGTACCATCT TTCTTAGGGT CACCAAAGGA AAAAAAAAAA
71041 AAAGAAAGAA ACAGAAGGAT ATCATACAGC AAGGATCTAA TGCAAATATG CCTCAAATGA
71101 GAGGCTACTG TGTGCTGATC CCAATCCAG GAAGTGTATG CACATTATCT AATTTAATCC
71161 TCACTGTATT TCTGGGAGTA TTATCCCAT TTTACAGAGA AGGAACCTGG CAGGGTAACC
71221 AAGCTCATGA ATGGAGAAAC TGGGATTAAA TATAAGCTT CCTTGCTCCA GAACTGCTGT

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71281	CTTTCTGCTC	TTCCACACTA	CCAGCTCAGC	TGTGCTCTCT	ACATGCAGGC	AGTTTTACAA
71341	GTTTCAGATT	AGCCTGGGAC	TTCCAGGGTT	TTGAATGGGT	TAGGGAATGG	GGAACTTTTG
71401	GGTTTACTTT	CCATTTTTTC	TTCATACATA	TGTAATATAT	AACATAAATC	TATGGTATAT
71461	ATGATAAATA	TATGGCTACA	TATGAACTAT	ATAATCACAT	ATATGCATTA	TAAATAAATA
71521	TTAATTTTAT	AATATTTTAA	AGGTTATCAA	ATAAATATTA	ATATAAATAA	TTAAATAATT
71581	AATACTCAGC	TTTGTTTTCC	AAAGTGATAA	ATGCCTATAT	TTAGCAAAAT	ATTTTTTGGG
71641	GGCCTGATAG	TTTTTAGGAG	TGTAAAGAAG	TCCTGATATC	TAAATGTTTA	AGAACCACTA
71701	TTTTAGGCTG	TTGTCTTCTG	TCTTATTTTC	CCAGCTAGAC	TGGTAAATAC	TTGAAGGCAA
71761	ACGTTTAGCC	AGCACATTAA	CATTTTATGT	TTTTATTCTT	TTGTGCTCTC	AGTGGCTGTG
71821	TCTTTTCTAT	CGATTTCTCA	CACCTGTATG	TGGTTATATT	TGCTGTATATC	TGTCCCACCA
71881	GGTATAAGTT	CTTGAGAGGA	CACACTGCTA	GGCTGATCTT	AGTTTTTATT	ATTTCTCCTG
71941	GTGTCCTGTG	CTTAACAAGT	GCTCATTAAG	TGTGTAAAAA	CACAGCACAG	TAAAAAACTA
72001	GACATTAAAA	AATAATGTCA	ACCAATCTAT	TGAAATTTGC	ATTTCCATGT	TTCTTCCAAT
72061	ATAGTCATTG	TGTCAGGTTA	TGTACTTATT	CTGATGAAGA	CTATTGCCTA	ATATACGTTT
72121	GCATCTTG TG	CTTTATAACT	GCCTTCATAT	AGACACAGAT	TGAGAAGGTG	TAAAAATGTG
72181	CATATCCTCA	CAATTGACAA	ATTCTTATCC	TTTGAGGGTA	GGTTTGACTT	TCTGAAATGC
72241	TTTGACATCA	TTTGAAAGAA	GCTTGAAGAA	TAAGATAGCT	GTTAATGACC	CAGTTTCCTA
72301	TGTCACCTTAT	ACAATTATAA	TGGCAATTTT	AAAATGTTAG	GTAAATATAT	TTTGCAATAT
72361	ATTGTTTCCTT	TTGTAATACT	CTCTATGTAT	TTATTTATAT	TTTTAAATTT	TATATTTTATG
72421	TATTTATTTT	TCTGGACAGA	GTCTTGCTCT	GTTGCCCAGG	TTAGAGTGAA	GTGTTGTGAT
72481	CATAGCTCTC	TGCAACTTCA	AACTGCTTGG	CAAAAGTGAT	CCTCCTGCCT	CAGCCTCATG
72541	AGTAGAGTAG	CGGGAAC TAC	AGGCGCATGC	CACTGCACCC	AGCTAATCAC	TATTTATTAT
72601	GCTCCTACTG	TGTGCTTTAG	TATATTTTCT	GTTGTTTTCT	GCAACCCATT	TTGAGGGCGT
72661	GTTGAGGAAT	ACAGATGCAG	TAACTTTCGT	CTCAGCCCTT	GAGGTGAGGA	AATATTTAGC
72721	CTCAGGTTTA	ATCTAATTGT	TGGCCATTTG	CCTTCAAAGA	TTGAAATATG	AGCAAAACTG
72781	TGGCTCTGGG	TTATATGTTA	AAAAAAAGTT	TATGGGGCTG	AAGCCAGGCA	ACAGACAAGA
72841	GCCCCACAA	TCTTATTTAG	GCTGAAAATA	TCCTGGAGTC	CCTGTATTGT	TGGTCTCAAG
72901	CAGATAGCAA	CACTAACACT	TACTCTTTGA	GGCAGGCACT	GCCAGTGGGG	TGGCTGTTAT
72961	TATTAGCTTC	ATTAATTGGT	GAGTCAGGAA	AAAACAGCTT	TAAATCATTC	AAAGTTCTGG
73021	CCTATACAGG	ATTTAGTAAT	ATTAGGTTAG	CTACATCCAA	AAGATGACAG	AACCCTACTC
73081	TAAGGCTGGG	CTTGGTGGTT	CACACCTATA	ATCTCAAAC	TTTGGGAGGC	TGAGGCAGGA
73141	GGATCACTTG	GTGCCAAGAG	TTTGAGACCA	GCCTGAGCAA	CATAGTGAGA	CCCCGTCTC
73201	TATCAAAAC	AAAGAACTCT	AATTGGCATA	GTAGAAGGAA	AAAGTGAAAG	AAAAACCAGC
73261	TGTCACCCTC	ATTCCTTACA	CCTGTCTTAA	CAACTCCTCT	CACATATCCTT	TGAATATATC
73321	TTGGCTGTTT	GAGTCTCTCT	CTAGCCCCAT	TACTGCTGTT	TGGACTTGAC	ATTTTGCTCT
73381	GCATTTTTAA	CTTTTCTACC	AGGGTTTCCA	GACCCTGAAG	AGTGTGGCAT	GAAACAAAAC
73441	TAGTCAACCT	ATAATATTTA	TGATGTGTGT	GTAAATAAAA	GAATACACAA	TATATTGCAT
73501	TACAATATTT	TAAGTGTGTC	CTCAATTTGT	TTGTGGCTTT	CTTGAGGACA	TCAGTTTTGG
73561	GTGGGACGAC	CACATCCTTA	ATCTGAACTT	TCCCTTGAG	GTCAATCTCTT	TTTTTTTGAA
73621	ATAGAGTCTC	GCTCTGTAC	CCAGGCTGGA	GTGCAGTGGC	GCAATCTCAG	CTCAGTGCAG
73681	CGTCCGCCCTC	CTGGGTTCAA	GTGATTCTCC	TGCCTCAGCC	TTCCAAGTAG	CTGGGATTAC
73741	AGATGCACGC	CACCATGCCG	AGCTAATTTT	TGTATTTTTA	GAAGAGACCG	AATTTACCA
73801	TGTTGGTCTAG	GCTGGTCTTA	AACTCCTGAC	CTCATGATCT	GCCCCCTCA	GCCTCCTAAA
73861	GTGCTGGGAT	TACAGGCGTG	AGCCACCCCG	CCCGGCCAGA	GGTCATTCTA	ATAGACTTTT
73921	TTTTTGTTGT	TGCTCACAGG	CTTGTTCAAT	CTTATTTCAA	AATTTGAGAA	ATACAGTTTC
73981	CATGGAACAC	CAACCAGATA	TCAGGTTGCT	ATGGAGTTGA	TAGTCAAAG	CTTTGTATCT
74041	TCCAGTTTTT	CAGAATGGCT	TCTAAAGGTT	CTGATTGAGA	GCTCTTAGGC	GAAATTGAAC
74101	AACCAAGTGT	CAAAGTACAA	CATTCAGGAA	GTTAAAAACA	TGACTGACAT	ATATGTACTA
74161	TATATAGTGA	GCTTGTGTAT	GTGTCAATGA	ATGATTTAAT	TCATTAATGA	AGGAGGAAGC
74221	AGAATCACAA	TTAGGTCAAA	GGAAGATACG	GGAGAATAAA	ATATGTATTT	GGTCAGGGAA
74281	AGGATGTATA	CTGGAAGAGG	AAGGGAAAAT	CAGATATAAA	GTTGTTTAAAT	GACTTATTAG
74341	GCAATACAAT	AATAACTTTT	AGGGTCATTT	TTTCTATATT	AAGAATTCAT	TTCCATCTCT
74401	ATGACAAAAT	CCTTATTAAT	TTATTAAGT	TCTACAAGTG	AATGTTTACT	TTTAGATAGT
74461	CTGGACCCAA	TAAAATGTAA	ACATTAAGTC	AGAGTTACTT	TCACGTAGGA	CAGTGTGTGC

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74521 CAATAAGGTA CCACTAGCTA CACGTGATCA TTGACCATT TGGACTATAGC TAGACTGATT
74581 TAAAATGTTC TAAAAGTGTA AAATACACAC CAGGTTCTGA AGATTTATCA TTTAAAAAAG
74641 AATGTCAACT GTCTTTT TTAGCTTATT TATTATATGT TGAAGTGATA ATAGTTTAGA
74701 TATATTAAGT TAAATAAAAT ATCTTAAAT TAATTTTACT TGTTTCTTTT CATTCCTTCA
74761 ATGTGACCAC TAGAAATCTG GAAAGTATTT ATGTGATTCA CATTCTATTT TACTGTCTAG
74821 TATTGCCTTA CATCATCAGG TACCCCATAA GTAGGCTTTT TAGATAATTC TCTAATATAG
74881 CTTGGAAGGA TATGGAGAAA TATTTTTCG TGCTTTTAA GTTTTGCATA ACTTTTTC
74941 CACACTTTAT AAAGGATCTA GAAAAGGGT GGTACATGT TTCTCTGTCT TCTGGCCTCC
75001 ACCATGTTGC CAGGAGGTTG GGGACAAGAT TCTGGGTGGC TGGATGTCCT AATGGCTTGA
75061 GGTCTGGACT TGAGATTGTC ATATAAAGAG ATGTGATTAG ATTGAGTCGA CTAGAAAAAT
75121 CATTTAGAG AACTGAATCA CAGCGATTAA ATTTACATGT CGATTTATAA ACCAGGACAC
75181 CAATTTATAG TGAAGAAGG TCCGATTACC TGGTAATCAA GACGTTTCAT AGCTATTTTC
75241 ATGATGGATA TACTTAGCTG AGTTTTAAAT GAGAAGGGG TTCATTGCAC ATAGAATAAG
75301 ATCTAAGTGA AATGTTTATT TTATTTTTTT TTTTGTGACA TGGAGTCTTG CTCTGTTGCC
75361 CAGGCTGGAG TGCAATGAGG CAATCTCGGC TTCTGGAGTG CAATGAGGCA ATCTCGGCTT
75421 CTGGAGTGCA ACGAGGCAAT CTCGGCTCAC TGCAACCTCC ACCTCCCGGG TTCAAATGAT
75481 TCTCTGCCT CAGTTTCCTG AGTAGCTGGG ATTAGAGTTG CCTGCCACCA CGCCAGGCTA
75541 ATTTTGTAT TTTTTTTAGT AGAGATGGGG TTTCACCATG CTGGCCAGGC TGGTCTCGAA
75601 CTCCTGACCT CAGGCGATCT GCGCGCTCA GCCTCCCAA GTGCTAGGAT TACAGGCGTG
75661 AGCCACCAAG CCTGGCCTAA GTGACATGTT CTTATATTGT TCCTTTCTTT CTTTTTTTTT
75721 CGACTGAGTC TCACCTGTT GCACAGGCTG GAGTGCAGTG GCGTCATTTT GGCTCATTGC
75781 AACCTCTGCT TCCCGGGTTC AAGCGATTCC CTTGCCTCAG CCTCCTGAGT GCCACCACCC
75841 CCAGCTAATT TTTGTACTTT TAGTAGAGAT GGTGTTTCAC CATGTCGGCT AGGCTGATCT
75901 CAAACTCCTG GCCTCAGGTG ATCCGCCCCC GAGTCTCCCA AAGTGCTAGG ATTACAGGCG
75961 TGGGCCACGG GGCCAGCCT TATATTATT CTTTACTAC AATATATTAG TATGATGCAG
76021 GTGCTTCAAT TGTTTATACA CTTTCCATAA TTTTGTATAA TTCTTATACC CTGTCACTCT
76081 GAGGAATAGC CGGTCTAAGT GTTTTCCACA CACTGCTAAT TCATCCATCA CTAATCTCAT
76141 TAGAGTGTTA ATTCCAGAG GACATAAGCA CACAAGCAGA CAATGTTTAC AAATGTTTGA
76201 CAAATGTTAT TTAATAAAAC AATGGGGTCA CCCTTAGTCT AAAAGATGTT TCACTTTTCA
76261 TTTGTCAATT AACTCTTATT TGTAGGTTCC CTTTGTACTT TCCACAATC TAAGGCTGTT
76321 CTCTTTAACA CATATTTTCA TGAAAACATA TATTTGAGCA GAAATTGTTG GGGAGTTGTA
76381 ATATTACCTT TGTCCTAAA TATGAATCTA TAATTATATC AAATATATGG GCAGACAATT
76441 TACTTTGCCT TTAATCTCAA GAAAAAATA GCAATTACTT GGGGTCGGAG AGTAAATATA
76501 GAAGTAGTGA ACCTTAAAGT AGCAAACCTT AGAACAGAAT AGTTTCAGAG GGGATGAGAA
76561 GAGGTGATTT TTCAGCTCAT CAACAACAGA TCTTATAATA AATTACATGT TCTGGTACTT
76621 TTCTTGCTCT TCTGTGTTAA ATTTTGCTAT TTAATAAAT AAATTTCAAA TACATTGTTT
76681 ATCTTAAAG TCAAGAGTGT GTTTTATTAA AGTCAGTTGC TTTATTTGCA ACTCAAAAGA
76741 TATATTTGAG TTCCCAACTG GAGATTGTCC TATATGGTAA CTTGCGTAAG GTATGGTTAC
76801 TGAAAGTAAC CTACAATTTT CATGGGCTGA AATTCATTTC TATATTGCAG CGTACAAAAA
76861 TAAATAAATA AAAAATGCTT GTTTTCTTTG AAAACATATT ATCTCAGTGC CTCTAAGTGC
76921 CAAATCTATT GGCTTTTTTG CAGGCTTAAG GGCTCTCCCT TGTTCTTTTA TGATCTCTAT
76981 CTTGAGGGCC AGACCTCCTG CCTTACACAA CTCAGAGGGG GACCTCAGAG CTCTTTAAAA
77041 AGAGCCCAAT TTCTCGCCTG TAGAGAAGTG AAAAGGATGC CCCACCCCA TCTATGAAAA
77101 GAGGGATTG ATAGTTTCAA TGCTTCAA TCAAAGATT AAGTCTGTAG CCCCCACCA
77161 CCCCAGACCC TAGCAAGGCT CATGAACCCC CTCCCATCCC GCCCTAATTG CTTTGGACTG
77221 GCCGTGGAAT CCTTGTCCTA GTCCACAGTT CCTGTGCGAC TGCACGAAGA ATTCACAGAG
77281 GACCTGTGTT ACTTCCCTTG TGAAGAAACA GAATTATCAT GAAAAATTAG GTGGAAACCA
77341 TTTCGCTTTT TTCTTCAAAA ATAAGGGAAG CATGTGCCCA ACCACCCCTG GGAAAAAGAA
77401 CCTTCAGGGG CAAAGGAGCG AACAGGTAAT TTATAAGAA AACAGAAAGT GGTCTCTGAC
77461 TGCCCCAGAC TTCCTTCGGA GTTGGGGGAA TTGGGGACGC CTGGACGCGT TGTTTTTGTT
77521 TTTGTGAAA AAATAAATGA AGAGCATGAA GCCCGAGGCT TCTGAGATCC TTTCTGACC
77581 AAACCAAGT GATTTGGTGC GGGGAATTTT AATATTTTTC CCCTTTTGTT AGGTGGAACA
77641 AACACAACCT GGGAGCAGCG CAGCGGCTCA GAGCCTGCCA GCCAGGCGGG CGACCAGAGC
77701 ACCAATCAGA GCGCGCCTGC GCTCTATATA TACAGCGGCC CTGCCAGGC GCTGCTTCAT

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77761 CGGCGCTTTG CCACTTGTAC CCGAGTTTTT GATTCTCAAC ATGTCCGAGA CTGCTCCTGC
77821 CGCTCCCGCT GCCGCGCCTC CTGCGGAGAA GGCCCTGTGA AAGAAGAAGG CGGCCAAAAA
77881 GGCTGGGGGT ACGCCTCGTA AGGCGTCTGG TCCCCCGGTG TCAGAGCTCA TCACCAAGGC
77941 TGTGGCCGCC TCTAAAGAGC GTAGCGGAGT TTCTCTGGCT GCTCTGAAAA AAGCGTTGGC
78001 TGCCGCCCGC TATGATGTGG AGAAAAACAA CAGCCGTATC AAACCTGGTC TCAAGAGCCT
78061 GGTGAGCAAG GGCACCTCGG TGCAAACGAA AGGCACCGGT GCTTCTGGCT CCTTTAAACT
78121 CAACAAGAAG GCAGCCTCCG GGAAGCCAA GCCCAAGGTT AAAAAGGCGG GCGGAACCAA
78181 ACCTAAGAAG CCAGTTGGGG CAGCAAGAA GCCCAAGAAG CCGGCTGGCG GCGCAACTCC
78241 GAAGAAGAGC GCTAAGAAAA CACCGAAGAA AGCGAAGAAG CCGGCCGCGG CCACTGTAAC
78301 CAAGAAAGTG GCTAAGAGCC CAAAGAAGGC CAAGGTTGCG AAGCCCAAGA AAGCTGCCAA
78361 AAGTGCTGCT AAGGCTGTGA AGCCCAAGGC CGCTAAGCCC AAGGTTGTCA AGCCTAAGAA
78421 GGCGGCGCCC AAGAAGAAAT AGGCGAACGC CTACTTCTAA AACCCTAAAG GCTCTTTTCA
78481 GAGCCACCAC TGATCTCAAT AAAAGAGCTG GATAATTTCT TTACTATCTG CCTTTTCTTG
78541 TTCTGCCCTG TTACTTAAGG TTAGTCGTAT GGGAGTTACT GAGGTATCAG ACGAATTGGG
78601 TGACGGGGTT GGAGAGTGGC CGTGGTGAGG TTACAGCATT TAAACCTTTA TTGCGGCTTC
78661 TAGGTCCCTG ACCGGAGGCT TTTCTCGCTG GCGGATGGTT TTGGGATGGC AGTCCCGCCC
78721 CAGGCCTGTG AACGGCAGAA AAGACCGCAA AACAAGAGCC AGTTTCTTAG TCTAAAGGGA
78781 TGTCCGGATT GGACTAAAAA ATTTTCAAAA GTCCCGCCTT GCTCCCGGTG TGGTCCGTTT
78841 TTCTAGTACA TGACTTTCAT TCTGTATTTA ATTGGATGGT GGAAGACGTT GCTTATTCTG
78901 TGTTTTTTGC TTTACTGTGA CTTAAAAGTT TTGCCTCTTT TCTCTTTATA TTAATGTCTG
78961 GGATTTCCGA CGCTTTCAT GTTGTGGTA GTCAAGTTGA TGTCTCCTGG AGGTAGTGGC
79021 AACATCCAGC CTTGGGAGGA GAGTGCCTGC AGGTACCTTT GTCCTACATT CCTCTGCTGT
79081 TAATTTCTCA TTCTGTGGC AACGAAGGAA TGCATTTAAA AACAGCCAC AACAGCGGCA
79141 ATAGCCCTTC CTCCACCCAA GGCAATCGTG GACCTAGGGA GTTTTTGTG CCACATAACA
79201 TGTAGCCTTC CGCTAAACTG ACAGGTTTGA GCGTATCGAT TTTGAGCGTA TTTAGACAGA
79261 AACTTTTAGC CAGCCATTTT GTCCTCGCAT GACTACGGTT GCTTATCTG TTTAGACAGA
79321 CAGCAACATT TAAAAATCGA AGTTCCCTTTA AACGTATTTT GTTTGGCAGT CCAAATGTTT
79381 CTATGCAGAA AACAGTATTT GTACTATTAA CTATGAAGAG TGTATGGATA AATGGGAGAC
79441 ATTTCTAATA AAGGCCTTCG TTAATGGTTC CCTCTGTTTG ACATCCATGG TGCTTCTGAA
79501 TACAGAAAGC CTAGCGTCTT ATATTCGCTT CTTTTAAAAT CTGGTGGGCA CATTTTGGTG
79561 AGACCTAAAT TATGGGGACT GGGGCTTCTG GAGATAAGCT GCTCAATTAT TCTACCATCT
79621 CCACAATGAT TAATATAGTG AGTTGATTTG TTAGTGATAG TGACCACGGA TTCATCCCAA
79681 GAAAGAGAAA GGGGAGGGAG GCAAGCAGAG AGACAGGAAG ACAGAGGCAG GGAAGAAGGA
79741 GAAAACATTC TCCCATGGTT TAAGTAATTT TGTGTTGTTA ATTTTACATT ACAACACGGT
79801 TTAACATGGT GAACCTCTA TTTTGGTGTA AGGTTTAAAC TATGGACATA TTTTCCCAA
79861 GACCATTTAT GAACCTTCAT TTCTGCTTCC CCCTTCTTCC TCCCGTGCCA CCTCCACGC
79921 TCCTATCAAT TTTGGCTGTT TTGTCATAGG CTAATACGCT ATAATTTTAT GGACAGTTGG
79981 ACTGTCTTAG GTTCTCAGG TTTCTATTTT GTTCTTTTAG TCATTCCCAC AATTCTTAAG
80041 GTAGAATTGT ATTGTTTTAA ACATTGTGTT GTGTGCTATC CTCAATGCTG AGATGATTAT
80101 GTGACAAATG GCAAGTGTTT AACTAATACC TAAATCTGTA GTATCTTATC AAGCCTAATG
80161 CTACTTCACA ATGCCTACTC CATTCACCTC ACTTTATCTC ATTACTGGCA TTCTGTCATC
80221 TCACATCATC ACAAGTAAAA CGGTAAGCTA TTTTGAGAGA GATCAGATC ATATAATTTA
80281 TATTTATATT TATTTATTTA TTTATGAGAC GGAGTTTCCC TCTGTCACCC AGGCTGGAGT
80341 GCTGTGGCAC GTTCTCGGCT CACTGCAACC TCCGCTCAC GGGTTCAAGC GATTCTCCTG
80401 CCTCCGCTC CCGAGTAGCT GAGATTACAG GGGCCTGCCA CCATGCCCGG CTAATTTTGT
80461 TATTTTTAGT AGAGACGGGG TTCTACTAAG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT
80521 CAGGTTATCC GCCCACCCTA TCCTGCCAAA GTGCTTAGAT TACAGGCGTG AACCACCGTT
80581 CACAGACTCA AATCATTTTT ATTACAGTAT ATTGTTATAA TTGTTGTTTT ATTATCAGTT
80641 ATTGCTAATC TCTTACAGTG CCTGATTTAT AAATTAAATT CATCATTGCC ATGTGTATAT
80701 AGAAAAAAAC AGTGTATATA CGGTTCAAGTA CTATCTGTGG TTTCAAGCAT CCACTGGGGG
80761 TGCAGTTTAT TAAACATGCA TTTACATTAG TCTCCCTTTT GGGAGACTAA TTAAGTGA
80821 TGTGTAAACG TGACTTTAAT AGCAGATAGA GCTAATTTTC TCTCATTAAT CTCTTTTTTC
80881 AGAATTTTCC TGGTTATTCC ATTTTATTAT TTTCCATATG TATATTAAGA TCTCTTCCAC
80941 CTCCTCCTGT TTCTCCATCT CAACATCAAA CAATTAAAAA AAAAAAAG GCTGGGCGCG

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81001 GTGGCTCAGC CCTATAATCC CAGCTCTTTG GGAGGCCTAG GCGGGTGGAT CACGAGGTCA
81061 GGAGTTCAAG ACCAGCCTCG CCAAGATGGT GAAATCCCGT CTCTACTAAA AGTATAAAAA
81121 TTAGCCAACC ATGGTGGCAG GCGCCTGTAA TCCCGGCTAC TCGGGAGGCT GAGGCAGAGA
81181 ATTGCTTGAA CCTGGGAGGC GGAGGTTGCA GTGAGGCGAG ACCTTGCACT CCAGCCTGGG
81241 TGACACAGCG AGACTCCGTC ATAAAAAAA AAAGCCGGAA GCAGTGGCTC ACGCCTGTAA
81301 TTCCAGCACT TTGGGAGGCT GAGTCAGGCA GATTACCTGA GGTCAAGGAGT TCAGGACCAG
81361 CCTGGCCATG AAAATACAGC CTGGCCATGA AAACACACAA TAAATTAGCT GGGCGTGGTG
81421 TCACACACCT GTAATCCTAG CTACTCGGGA GGCTGAGACA GGAGAATCAC TTGAACCCAG
81481 GAGGCAGAGG TTGCAGTGAG TTAAGATGAC GCCACTGCAC TCCATCTGGG CGACAGAGCC
81541 AGACTCTCTC TCAAAAAACT AAATAAATAA AAATAAAGTT ATGGTACATT GAACTTCTGT
81601 GTTCCTTTCT CCCTTAGATA CTTTCATGGC TACCCATTTA ATTGATGTTT TTATCATCTC
81661 CAAGAGTTAG TCAGGAGAGG AATCAACCCA AGCAAAAATA GCTGATTTTC TAATTTTCCT
81721 TCAATGCCCT TTGGGGTCTT AATCCATTG ATTTATGTAC TTTCAATTAA TCCTAACCTC
81781 GAATGTCTTC TGCAACATG TTTCCACAGA TGAAACTCGT CAAATGAAAC ACATTCCTTT
81841 AATTTATAGA GTTAAAAATT AGAAAAATTT TCAATTCTAT TTGGCCTTTA GATTCAGTCT
81901 TGCATATGTT TTCTCAATTT TGTTCATGCT CTTTAGTTTT GTTTTATTTCC ATCACAATTG
81961 TTACATAGC TTAAGGCTT AGGTCTAATG AACCATTTCAT TTGGAAATTA AAATTGGCCA
82021 TTTTAAGATG AAAAAGATTC TTGCCTCAAT TTTACTTAGT TTTTGAAACT GTCAATGAGG
82081 ACACATGTTT TTCTGTACTC TTAGATTAC TAAGTAGTGT CTTGCAAATT TAAGTACAA
82141 AGGACAGATT AACATGCGAA AAAAAGAGCA TGCAATTTTA TTAGTATATT ACATGCACAG
82201 AGTTCCCAA GAAAAAATAA TTGAAACCTT AAAAACGCGG TTAGACTCAC AGACTTATAC
82261 ACCATTCCAA CAAAGGAAAG GGAGTTTGCA CTTTCATGGG TGACGAATTT GGGAAATGTGA
82321 CAAGGAAATA AATACATGGG CAATAAAAC CATGGAAGAT AAAATGAAAG ATAGAAATAA
82381 TTGTAGTAAG GTTTGTTTTT GCAGAGTCAT CTCAGTGCCA ACCTTCCATA TCTAGTGATA
82441 AGAATTGCTC TCTTTTCTT GGTATAGCAG TTGGGGACAC TTTTACAAGG GAAATTTCTG
82501 TCACCTTCAC AAAGGAAAT TTGGGTAAAG AGAAGACAGA GACCTCTTCC TACACCTGTT
82561 GATTTTCAAT TGCCTTCAGC TGAAATAAC TTTTATGCCA AAGTAGAATA ATTTGGGGGT
82621 GACATCCTGA TATCTTCAA AACTTATATT TAATTCACA TTAGTAATTA TATCATTTTT
82681 GATTTTAA TTAGTTTTAT AAAATAATT TGAAAAACGG TAATAATATT CAAATAATTC
82741 CAGAAACACT GCTGATAAGC CAAAAATC AATGAATATT GCATAAACAA CTGATAATTC
82801 AACCATGAAA ATTTATGACA TTGTTCTTGT GTGATAAAC TATGAGTAAC ATAAAACTA
82861 GAGGCTACTT GTAATGCATT ATTCCAAACT TTCTGTTTTT TATTTATTTA TTTATTTATT
82921 TTGAGACATA GTCTCTCTCT GTCACCCAGG TTGGAGTGCA ATGGCGTGAT CTTGGTTCAC
82981 TGCAGCCTCC ACTTCCCCGG TTCAAGCAAT TCTCCTGCCT CAGCCTCCTG AGTAACTGGG
83041 ATTACAGGCA CCTGACACCA AACC CGGCTA ATTTTTTGT ATTTTTAGTA GAGACGGGGT
83101 TTCGCCATGT TTGCCAGGCT AGTCTCGAAC TCCTGACCTC AGTGATCCAC CTACCTCGGC
83161 CTCCCAAAGT GCTAGGATTA CAGGCGTGAG CCACCATGCC CGGCGCATT TCCAAACTT
83221 TCATACACAG TGCTATCATG GCTACAAATT GAAGTATCAT ATTATACACT CCTAGGCAAA
83281 GCTCTGGATA TTTTGGCTAT ATAAGCCTGA GGGAAATGTA GTAAGGACAT TGTGGTTGAA
83341 ATTCATACCA GAGATGAACA GGCCAGTGC AAGACAGAAT TACATCACTA AAGGATATCA
83401 GAAGAGAATA GGGATTTAGG GTACAGTGGC AACAACAGTT TTGGGAAC TAATTTTTTG
83461 AGCACTTATT TACAATATGC CAAGCACTGT TGCTGATTAC TCTATATTTA TTTTCAAACA
83521 CATCTTGTC ACAGCACTTT GAAGTAAGTG CCATTGTCAT TCCCACTTCA GGGTGAAGGA
83581 CTAAAGCTTG GTGTCATTAA GGATGTAGCT AGTTAGCTGT GTGTGTGTGT GTGTGTGTGT
83641 GTGCATTTTT TTTTAAATTT AAAGTCAATA AATTTTTATT TGAAGAATTT CACATCAAGG
83701 TAAACTTTGT TCCTCTAAAG AGCTGGAGTC AAAATGTATC TTCAAAGAT TCATCTTCAA
83761 GTTAGCCCTT CTTAATAGAA CTGATGCTTA ATCCACAGTT GTCAGCCAC AGTTCTTTTA
83821 TTTTGACTTT TTTTTTTTTT TTTTTTTGAG ACGGAGTCTC TCACTGTCAC CCAGGCTGCT
83881 GGGCAGTGGC GTGATCTCGG CTCGCTGCAA CCTCTGCCTC CCGGGTTCAA GTGATTCTCC
83941 TGCCTCAGCC TCCTTAGTAG CTGGGACCAC AGGCGCATGC CATCGTGCTC GGCTAATTTT
84001 TGTATTTTTA TTAGAGACAG GGTTTCACTA TGTGGCCAG GCTGATCTCA AACTCCTGAC
84061 CTCATGATCC GCCTGCCTTG GCCTCTCAA GTGCTGGGAT TACAGGTGTG AGCCACTGCA
84121 CCCGGCCTTA TTTTGCCTTC TTTAATCTCC ATTTGAACAT ACACATACTG ATGAAAACTA
84181 CAACATTCTT CACCAAAAAT CTTTGGGATT TAATTTCTTC AACCACCTTA CTTTGGGGTG

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84241	ATTTTAAGAT	TAGGTGTATC	TGCCTGGTTC	TCAATTTGAC	ACCCTTTCTC	TCTAAACATG
84301	AATGAGTTCC	AATCATATTT	ATTCCTAAGC	TATCACACTC	AAATATACTA	CAGATCTGTG
84361	GAATATGCCA	AAAGTTAAGG	TGAAAAATTA	AATTATTAGG	TATTTTCATAG	TTTTGCTAGT
84421	TTTTGATCTG	TGAGTGAATA	TAACATATCCT	CTATGTCCTG	GCACTGTTCC	TCAGAAACAT
84481	AGGGTCCACA	TATGTAATTT	TAAATTTTTT	AATAGGCACA	TTTTAAAAAG	TGAAAAAAGA
84541	AATCTATTTT	AATGATTTGA	ATCCAGTGTA	ACCAAAAATT	GTTTCAACAA	GGTATCTAAT
84601	ATTAAAATAT	TGAGTTTTTA	CTTTGTTATT	TTACTAGTTC	TTTGAAATCT	GGTGTGTATT
84661	TTACACTTAA	AGCACATCAC	AGTTTGGAGT	AGCCACATTT	CCAATGCTTA	ATACTCACAT
84721	ATGGTTAGTG	GCAACTATCT	TGGACAGGAC	AGCTTTTATA	CTCTGGGAAG	ACACAAGCAA
84781	ATACTTGCTC	TGCAGCAGAA	TCCAGATGTT	TTCCAAGAAA	ACACTTTTTT	TGACCTGTTT
84841	CTGAAACCCA	GGTAGTGTCT	CTAATACTTT	ATATTTTATT	GGTTTGTCTT	ATTGTAACCA
84901	CCCAACGGGC	TCTCCTTGTC	CACTTCCTAG	ACAGAGCTGA	TTTATCAAGA	CAGGGGAATT
84961	GCAATAAGGA	GCCAGCGCTA	CAGGAGACTA	GAGTTTTATT	ATTACTCAAA	TCAGTCTCCT
85021	TGAGAAATTT	GGGACCAAAG	TTTTTAAGGA	TAATTTGATT	GTAGGGGACC	AGTGAGTCGG
85081	GAGTGCTGCT	TGGTTGGGTC	AGAGATGAAA	TTATAGGGAG	CCTAAGCTGT	CCTCTTGTGC
85141	TAAATCAGTT	CCTGGGAGTG	GTGGGGTGGG	GGACTCAAGA	CCAGATAATC	CAGTTTATCT
85201	ATATGGGTGG	TGCCAGCTAA	TCCATTGTGT	TCAGGGTCTG	CAAAATAGCT	CAAGCATTGA
85261	TCTTAGGTTT	TAAATAGTG	ATTTTATCCC	CAGGAGCAAT	TTGAGGTTTA	GAATCTTGTA
85321	GCTTCCAGCT	GCACTGACTCC	TAAACCATAA	TTTATAATCT	TGTGGCTAAT	TTGTTAGTCC
85381	TGCAAAAGCA	GTCTGGTCCC	CAGGCAGGAA	AGGGGTTTGT	TTCTGAAAGG	GCTGTTATTG
85441	TTTTTGTTTA	AAAGCAAAAG	TATAAACTAA	GCTCCTCCCA	AAGTTAGTTA	ATCCCAAAC
85501	CAGGAATGAA	AAGGACAGCT	TGGAGTTTAG	ACGTTAGATG	GAGTCGGTTA	GGTAAGATCT
85561	CTTTCACTGT	AATAATTTTC	TCAGTTATGA	TTTTTGCAAA	GGCAGTTTCA	CTGTCCACTT
85621	CACCTCACAT	CAGGCCTCTG	ACTAGAGGAT	TCCAACAATA	CTTAGGCCAG	GACACCACCA
85681	TGTCTCCTTA	TCCACCCTGA	GGGAGTCCAA	TTTCTGAAAC	AAAGGAAACT	ATATATGATA
85741	GTATGAAACT	ATATATGAGA	AGGAAATTAT	ATATGATAAT	CAATTTTAGG	GTTATCTTAT
85801	TGATTAGAAG	ATATTAAAGT	GTGACACTGC	CTGGCAATGA	TATCTGCTGG	TAGTAAGAAT
85861	TTGGCGAATT	TAGTGAAATT	CCTGAGGCTG	AACCTCCACT	TCTGTAAAAT	GGAGACAGTG
85921	AGATAATTTG	CCTTACAATG	CTGAAGTAAG	AATTTTACAC	AATAATTCAG	ACCAACCACT
85981	TCATGTGGTA	CTTGGCCCGT	GGAAGACTAT	CAATGACAGT	TAGTTTATAG	TTTATACTAT
86041	TAATGAATCC	TTTGTTTCAT	TGTTATTTC	TTCTACACGT	TGGCCTCTCT	AAAAGAAGGT
86101	AATATTCAAT	ACAAATAAAG	TTAAAAACAGC	TTGCAGAGTT	GTCCAGGGGA	ACTCACTTAA
86161	CCACTGAAGT	GTTCAAATTG	CTTAAGGTTG	ACTTTATATT	CTCCTGACTA	ACCTTTCTCC
86221	TTCTGGTATT	TCTTCTGAGA	ACAGCACCAC	CATCCAAAGC	ATCATGCAAA	CAGTGGTCAT
86281	CCCAGACCAG	TAATTTCTCA	CTCACAGGGT	GCTCCTGCAG	AGATGTATTT	GAATAGAGTG
86341	GTAGGATGCT	GAAGAAGGCC	ACGTAAAATT	TGGCCAGTGA	TCTGGGGCAG	ATTTATCCTG
86401	AAGCTAATGA	AACACAAGTG	TAAGGGCCTG	TACTTCCAAG	GTGCAGAGAG	GGGCCCTACA
86461	AATGTGTTAG	TTTGTCTCTC	TCTCTCTCTC	TGATTTTAAA	ATTTGCAGTA	TTAAGGTACT
86521	TTAATCACGG	ATGGTTTCAGG	CTGCTATTTT	CACTCAATCC	TCCTTTTAT	TAAAATCACC
86581	ATTGTCTGAT	TATGTTAGAA	TCCTGATGAA	AATATTTGGA	ATTTGAGTAA	GAGAAAGTTT
86641	AGTTGAAGAT	GTATCTAGTA	TGGGGATAAT	AAGTTACGTG	ATTTGCATAT	GTGATCATGT
86701	GTACTTCATT	CGTTGCCAGC	CAATCTGACG	TAAGAATGGC	TTCAAGGAGG	CCGGGCGCGG
86761	TGGCTCACGC	CTGTAATCCT	AGCACTTTGG	GAGGCCGAGA	CGGGCGGATC	ACGAGGTCAG
86821	GAGATCGAGA	CCATCTTGGC	TAACACGGTG	AAACCCCGTT	TCTACTAAAA	ATACAAAAAA
86881	TTAGCCGGGC	GTGTTGGCGG	GCGCCTGTAG	TCCCAGCTAC	TTGGGAGGCT	GAGGCAGGAG
86941	AATGGCATGA	ACCTGGGAGG	CGGAGCTTGC	AGTGAGCCGA	GATTGCGCCA	CTGCACTCCA
87001	ACCTGGGAGA	CACAGCGAGA	CTCCGTCTCA	AAAAAATAAA	AAAAAGAATG	GCTTCAAGGA
87061	ATGTTTCTAC	TGCTCACTGG	AATAACTCAC	CTAAATTCCT	GGCAAGATGC	AGGTCTAGAT
87121	AAAATGTTAT	GACATCTAAG	TATTCAAAAC	ACATTCCCAG	CACGTAGATG	GAGTGTCTAG
87181	TGGAGAGTAG	AAACGTATAG	AGCCAGAAGC	TAGTCTGGAA	AGAATTCTTA	CAAAGTTTAC
87241	AACCTTACATG	TGAAAGGAGC	TTAACAGAGG	ATTTTCCAAA	TTTGAAAAACA	ATCCTAAAAA
87301	CTTACTTGAC	ATTACCAATA	ATGTGTTTTG	AAACTGAAAT	ACTTCTAAGT	TATGAAGAAA
87361	ACATATTATC	ATCAGCCACC	CTGGAGGAAA	GATTGAATTC	TATTTCCATT	ACCTATAGAC
87421	AACATTACAA	AATAATTTTC	ATCTGAAGAT	GGAATCAGAG	TATTCAGTCA	AAACTACAGG

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87481	AAAATATACT	TGGTAGTGTC	ATATTCAGAA	GTTAATAAAA	TATGCTATTT	TCTGAATTTT
87541	GTGATGGCTG	TTGTTTTGTC	AGCTTTTATA	AAATTGGAAT	TTGATTTTAT	TTTCCCATTA
87601	TAAATTTATA	TTTACAGTCT	GCAGTACTTT	TGCATTTTTA	ATTTTACATT	ATAGTTTTTA
87661	ATAGTTAACA	AGTTGTAAAA	GGTTTGATCC	CCAGAAAACC	TTGATCTACC	CCATCAGTTA
87721	AGTATACTAA	TATATTTAGA	AAATGGATGA	AATCAGCATT	TGAATATTTT	TAAATATTTA
87781	TTAAAAGAGG	ACATGGGTAA	AAGAGCTTTG	CAGTTGCCAC	CCTTCATTCT	CAAATTCCTT
87841	GGATAAGGAT	GACCGCATAA	TCTTTGGATG	GTCATACGCA	AGTCTTGTGT	ACTTGTTACA
87901	TAAATCTATT	TAGTGGACTT	TTGGCAGTGT	GTACTGAGGC	CAGTTTCTTC	CACCTGAGCT
87961	CTGACTCCAC	CTCCAGCAGC	CCAAAACCAA	TACTGAATTT	TGGGGTCAGC	TATTGTTTTT
88021	GTGGACTTAG	GTAACACAC	ACACATTGTC	TTTATGATAG	CTTTAATAAT	ACTGCCATCA
88081	GAACATAAAT	TGTCACGTGG	ATTAAAAGGA	GTGACGGTGG	TGTCCCCAGG	AGCCTTTCAA
88141	TATGTAAGTA	TTTACACATA	TACATGCTAA	AAAGACCCCT	AGGAATTTTT	TAACAAGGGC
88201	AAAACAGTAA	CTCAGCTTGT	TTTCTCGCAG	TAAAACCGGT	TGAAAAGGCC	TGATAGACTT
88261	GTCTGCAGTT	ACAAAACCTG	TGTGTAGTTA	TCACCTTTAT	ATCTCCTGGA	AACTAACATA
88321	GACAACCGAA	TGGGTTACAA	CTGTTTTTAA	GTGAAATTGT	GAGTGGCTCT	GAAAAGAGCC
88381	TTTTCAATGA	GGAAGAAACG	GGCAGACTTA	TGCCCTTTCC	CCACGGATGC	GACGTGCCAG
88441	CTGGATATCT	TTGGGCATGA	TGGTGACGCG	TTTAGCGTGA	ATAGCGCACA	GATTGGTGTC
88501	TTCGAAGAGT	CCCACCAGGT	AGGCCTCACA	AGCCTCCTGC	AGCGCCATCA	CCGCAGAGCT
88561	CTGGAAACGC	AGGTCGGTTT	TGAAAGTCCTG	GGCGATTTCT	CGCACCAGGC	GCTGGAACGG
88621	CAGCTTCCGG	ATCAGCAGCT	CGGTGGACTT	CTGGTAGCGA	CGGATTTTCG	GCAAGGCCAC
88681	GGTGCCCGGG	CGGTAGCGAT	GAGGTTTCTT	CACGCCACCG	GTGGCCGGAG	CGCTCTTACG
88741	GGCTGCTTTA	GTAGCAAGCT	GCTTGCGCGG	AGCTTTGCCG	CCGGTAGACT	TGCGAGCTGT
88801	TTGCTTCGTA	CGAGCCATTT	GCAATGAGAG	CACACACAAA	AGTGTAAGTA	ACTGAGAGCA
88861	AGTGGCCTTT	AAATATAGTG	AGAAAACATTC	TGATTGGTCC	TGTAATATTT	CAAAAGTCCC
88921	GCGCGATAAA	ATCATTGGCT	GAAGAGTGAC	CAGACTGATT	GGTTCATTAC	TAGACAATCT
88981	TATTGGATGA	GTTGCCCCAC	CGCCCATCCT	GTCCTTTTCG	TTTCAGTTAT	CTGCAGCGAC
89041	AAATTGTCTA	AAATTCTAGT	TCATCCAGTC	CCAAAGAACA	GAGTGTATAA	CAAGGTATCT
89101	AAGGATTTTT	AAAATGTAAA	TTCCGATTCA	GTAAGTTTGA	GTGGGACTTG	AAATTCTGCA
89161	TTCTTGACAG	TCTCGCAAGT	TATCAATGCT	GGTGAACACT	CACTAAACCA	CCAGAAACGT
89221	TCAGACTCAT	GTGCGGAAAT	AACGCTTATA	TTGAGAGAAAT	GAGATTCCAT	GCTATTTTGT
89281	TACTGGCGAA	CAGCAAGTTT	CCTTGCCCTT	TGTTTTCTAA	GTCCAAGTCA	CATTCCCACC
89341	CTGCCTGTTT	TCAAAATGTC	TTATTTTGGT	TGGCCTTAAG	TTTCACTTTG	TATACTTAA
89401	AATGTACTTT	CTAAAGGAAG	GTGTTATTTT	CTCGAAACTT	AACTTTTTAA	CACCATTAGG
89461	CTAGGGGGGC	GGTGGCTCAC	GCCTGTAATC	CCAGCATTTT	GGGAGGGCGA	GATGGGACGA
89521	TCAGTAGAGG	CCAGGAGTTC	AAGACAACCC	TGGCTAAAAT	GGTGAAACCC	CGTCTCGCAT
89581	AAAAATACAA	AAACTAGCTG	GGCGCGGTAG	CAGACGCCTG	TAATCCCAAG	TACACAGGAG
89641	GCTGAGGCAT	GAGAACCOCG	TGAAGCGGCG	GGGTGGAGGT	TGCAGTAAGC	CGATATCGCG
89701	CCGCTGCACT	CCAGCCTGGG	TGACAGAACT	AGACTGTCTC	AAAACAAACC	AATCCAAACG
89761	AAAAGCAAAA	AATACCCTAA	CAGAAGCAAG	TTATCATCCT	TTCTTGTA	ACTATGGACG
89821	GCTCTGAAAA	ATGCCGTTTC	AAGTGTAAGC	TACGTTTTCT	GATTTGAGTG	TTTACTTGAC
89881	CTTGGCCTTA	TCGTGGCTCT	GTTATTTTGG	CAACAGGACG	GCCTGAATAT	TGGACAGGAC
89941	GCCTCCCTGA	GCAATAGTGA	CGTTGCCACG	CTGCTTGTTG	ACCTCCTCGT	CGTTTCGGAT
90001	GGCCAGCTGC	AGGTGGCGGG	GGATGATGCT	GCGGGTCTTG	TCACGTATGG	CGCTGCCAC
90061	CAGTTCTAAG	ATCTCGGCGG	CCAGGTATTG	TAAGTACACT	GGCGCACCGG	CTCCGACCGG
90121	CTCAAAATAA	TTGCCCTTTC	GAAAAAGATG	ACGGACTCTG	CCCTATTGGG	AACTGCAAGC
90181	CCGGTAGCGA	CGAACAAAGT	TTTGCTTTAG	CTCCATTTTC	CACGTCCGCA	AATAGCGACC
90241	TATGAAAGCA	GCGGAAAAC	GTGAAAGACA	AGCAAGCTGG	AATGGCGCCT	GAACAAATCC
90301	TTTTATACAA	ACTGCAAGGC	TGCAATAGGA	AGCTATCCTA	TTGGTCAATT	ATGTTTGGTG
90361	CTTTATCCAA	TAGAAAAAGA	TAACATAAAT	TCCATATTTG	CATAAAACCC	ACCCCTCAGT
90421	GAAACCGTGT	TTCTTTTGTC	CAATCAGAAG	TGAGGAATCT	TAAACCGTCA	TTTGAATCTC
90481	AGGACTATAA	ATACATGGGC	TCTGAACTGT	TCTCTGTACT	ACTCTGTAGT	GGAGAGTGTT
90541	AGTAGCTTTT	CTATTCTGTT	TAGGAATAGC	AATGCCTGAA	CCCTCTAAGT	CTGCTCCAGC
90601	CCCTAAAAAG	GGTTCTAAGA	AGGCTATCAC	TAAGGCGCAG	AAGAAGGATG	GTAAGAAGCG
90661	TAAGCGCAGC	CGCAAGGAGA	GCTATTCTAT	CTATGTGTAC	AAGGTCTCTGA	AGCAGGTCCA

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90721	CCCCGACACC	GGCATCTCAT	CCAAGGCCAT	GGGGATCATG	AATTCCTTCG	TCAACGACAT
90781	CTTCGAGCGC	ATCGCGGGCG	AGGCTTCTCG	CCTGGCTCAC	TACAATAAGC	GCTCGACCAT
90841	CACCTCCAGG	GAGATTGAGA	CGGCTGTGCG	CCTGCTGCTG	CCTGGGGAGC	TGGCTAAGCA
90901	TGCTGTGTCC	GAGGGCACTA	AGGCAGTTAC	CAAGTACACT	AGCTCTAAAT	AAGTGCTTAT
90961	GTAAGCACTT	CCAAACCCAA	AGGCTCTTTT	CAGAGCCACC	TACTTTGTCA	CAAGGAGAGC
91021	TATAACCACA	ATTTCTTAAG	GTGGTGTCTG	TGCTATTCTG	TTTCAGTTCT	AGAGGATCAA
91081	CTGGAATGTT	AGCGAAGACA	AGTTTTAGAG	CCAAGGTTAA	CTTGGACGGG	GCCGTGCGCG
91141	GTGCCTCTTG	CCTTTAATCC	CGGCAATTTG	GGAGGCCGAG	GCGGGCGGAT	CACGAGGTCA
91201	GGAGATGGAG	ACCATCCTGC	TTAACACGAT	GAAACCCCGT	CTCTACTAAA	AATACAAAAT
91261	AATTAGCTGG	GCGTGATGGT	GGGCGCCTGT	AGTCCCAGCT	ACTCGGGAGG	CTGAGGCAGG
91321	AGAATGGCGT	GAACGCGGGA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCGC	CATGGCACTC
91381	CAGCCTGGGT	GACAGAGCGA	GACTCCGTCT	CAAAAAAAAAA	AAAAAAAAAAAA	AATTAATAAA
91441	ATATGAAGTT	TTGAAGCAGA	AATTATTTTG	TCGTATGTTT	TTTCATAAAT	TTTTTGCTTG
91501	CCTGCCTTCT	TCCTTTGTTA	CAGAACTCCA	ACACTTACCC	AAAGGTAGCT	GTTGGGTGAG
91561	GGTTTCTGTA	CTATAGTCCC	TTCTGTGGTG	GCCAGAAATA	TGTTACAGGA	AAGAGGTCCC
91621	CATCCAGACC	CCAAGAGAGG	GTTCTTGGAT	CCCGCGCAAG	AAAGAGTTCA	GGGTGAGTCC
91681	GCAGTGCAAA	GTAATGCAA	GTTTACTAAG	AAAGTAAAGT	GGTGAACGA	CAACTACTCC
91741	ATAGACGGAG	CAGGACATTC	CCGAAAGTAA	GAGGAGGAAG	GCATCCACCC	TAGGTACAAT
91801	ACTTGTATAT	ATGGGGAGAT	GTGCTCTGCT	ACAAGTTTGT	GATAAAGGAT	TAATTTTCTT
91861	AGTTACTATA	TTTTGCAAGA	ATCAACATTA	TTATCTTTAA	ACAAAATTAA	GAATGCCTTT
91921	GTTCTCCAGA	TATAGGGATA	TCTGGACACT	CCTAAGTCTG	AGTCTGTTTA	GTAACATTA
91981	TTTATTTGTT	CCCTTAACCG	TAAACATCTA	GAAGCTAGGA	ATGACTGACT	TTCTGGGAAT
92041	GCAGCCCAGA	AAGTCTCAGC	CTCATTTTCC	TAGCCCTCAC	TCAAAATGGA	GTTACTCTGG
92101	TTCAAGTAAC	TCTGACACTT	TTCTTCTCTT	TTTTTCTTCT	TTTTTCCTTC	CTTTATTTTT
92161	TATTTTTTAT	TTTTGAAATA	AGAAATCAAG	AATACTTGAT	GTTTCATCTA	AAACAATACC
92221	CATAATTGAT	AAGCCAAAAC	AAAAACCTAG	GTCTTCTAAC	TCAAACTAG	GATGTTTTGC
92281	TGTCTCTGCT	GATACTCGGC	TGATCGTTAA	TAGGTAATTA	ACAAACAAGC	CTTGCTATGT
92341	CCCCCTCAGT	TTATTACCAT	TAGATCATAT	GCCTACTGTC	AATCATATTA	ATCCACAAC
92401	ATGCATTTCA	CAAAACCTTG	CATAAAAATT	CACAGGTTTC	CCGCTTCCCT	CGAGTTTTCA
92461	TTTCCGAAGG	GTCCCATGTA	ATATAAACT	TATATTAAAT	ACATTTGTAT	GCTTTTCTCT
92521	TGCTAATCTT	TTTTTTTGTT	TTTTGAGACT	GAGCCTTGCT	CTGTCACCCA	GGCTGGAGTG
92581	CAATGGCGCG	ATCTCGGCTC	ACTGCAACCT	CCGCTTCCCA	GGTTCAAGCG	ATTCTACTGC
92641	CTCGCCCTCC	CGAGTAGCTG	GGACCACAGA	TACGTGCCAC	CATGCCCCGC	TAATTTTTGT
92701	ATTTTTAGTA	GAGACAGGGT	TTCAACGTGT	TGGCCAGGAT	GTTCTCAATC	TCCTTACCTC
92761	GTGATCCGCC	CGCCTCGTCC	TGCCAAAGTG	CTCGGATTAC	AGACGTGAGC	CACCTGCACC
92821	GACCAATCTG	TCTTTTGTGA	GAGGGGCCCTC	AAGCATGAAC	TTACTGATGG	GTGAGAAAAA
92881	CAGAATTTTC	TTTTCCCCTA	CAATATAAAC	ATTAATTGTA	ATGTTATCAT	TCAGGACATT
92941	TTGGTGACCA	ATCTTACAGA	AATTTTATCT	TGTGCAAGTC	TATGCAAACC	AATATGTAAA
93001	TCTTCTATAA	GTGAGATTGT	ATTTCACTTT	TCTAGTATCC	TTTTAAATTA	ATAAAGAGA
93061	TTCTAATGAT	TATTTTCATT	ACTGCATTTT	ATTGTAGGGA	AGTAGATAAT	TGCCCTTTAT
93121	TCACTGACCT	TCGCTTTTTA	AAAATTTAAA	CCATGTTACC	ATGAAAATGC	TTTTCAGTAT
93181	TTCTCTACAC	ACAAGATTGC	TGTAAGGGCA	AAAATAGAGA	TAGGAATCAT	GCATCCATTG
93241	ATATACATAT	TTTGATTTTT	AATACATGTT	ACCAAGTTGC	CTCCTGAAGG	TCTGTTTACA
93301	CTCTCACCAA	CAGGGTGTTT	TTTCTGACT	TCCACAAATG	CTCTTGAACA	GTGGGTGTGT
93361	TAGTCTGTTT	AAATTGCCGA	CATGAACAAT	TAAATCTCAT	TGTTGTTTTT	ATTTTTAAGA
93421	CAATTATTGT	TTGAGACTGC	ACATTTTGAT	AATAACATTT	CTTCTATTAT	GGTTTGATTA
93481	CTCATGATTC	TTGCCCATTT	TCTTTTGGGA	TGTTGCCTTA	TGTACATTAT	TTTAAATAGA
93541	TAGCTCCATG	TATTAAGAAG	TTATTAAGTT	TGAGGGCTTA	TGATATGTCA	GTTACATTTT
93601	TAAGATTTTT	TTTTTTTTTT	TTTTTGAGAC	GGAGTTTCAC	ACTTGTTGCC	CAGGCTGGAG
93661	TGCAATGGTG	CGATCTCGGC	TCACCGCAAC	CTCCGCCTCC	AGGGTTCAAG	CAATTCTCCT
93721	GCCTCAGCCT	CCCCAGTAAT	TGGGACTACT	GGCAAGCGCC	ACCACGCCTG	GCTAATTTTG
93781	TATTTTTTATT	AGAGATGAGG	TTTCTCCATG	TTGGTCAGAC	TGGTCTCGAA	CTGCCGACCT
93841	CAGGTGATCC	ACCCGCCTCG	GCCTCCCAA	GTGCTGGGAT	TACAGGTATG	AGCCACTGGG
93901	CCCGGCCACA	TTTCTAAATT	CTTTATAAGT	ATAAATTCAT	TCAATCTTCA	CCAAAACCTCA

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93961 ATGAAGTGTG AGTACTATTA TTATCATTGT TTTACAGATC AAAACAAGTA ATACAGTCAC
94021 TTAAGTGTG CTATACACCT GGTAATTTTT TTGTTTCGTT GTTCTATCAA TTATTGGGGA
94081 AGGGGTGTG AAATCTCTAC CTTTAAATCA TGTATGTGTC TATTTCTCCT TTCGGTTCTA
94141 TCAGGTTTTG CTACACATAT TTTGCAGTTC TGTATTTTGG TGCATATACA TTTAGAATTG
94201 CTTGTTTTTC GTATTGGATT GACCCTGTTA TCATTATGTA ATATCCCTGT CTGTTCCCTAG
94261 TAATTTTCTT TGCTCTGAAA TATACTTATC TGATATATCA TCCAAAAGAC CACCAGGATG
94321 GCTAAAGAGT AGAAAGGAGA GATTTACTGG CAATACTAAT TTGCAAGCCA GGAAGAGATG
94381 GTCCCAGAAC CTGCCAAAAT TACTCTCTCT TTGGGGAGAA GGAGCAGGTT GGTATTTTTT
94441 ATGCCTCATA GGCTATATAT TACACAATAG AGTCATACAT ATTTAGCACG TTTGGGGGGA
94501 CAGCTATATA TATTATGAGG GGTGCCAAGT GCATTCACAA TGGATAAACA CGTGTAAATAT
94561 ACCTCCCATG TTCACCTCGA GGTAAATTTT TGGTTAAAT GAGGTAGAAT TTAGGTCTTT
94621 ACATCACAAG GTGAACATA GGAACAAAGT TTACGTGCTG CCTCTAGCAG CTGGCTGAAA
94681 ATGGCTTAAG GTCTACAATT ACGTGTAAGA ATAGAATGTG TGTCAAGGCG GTCTCTGTG
94741 CAATCAGAGT TGTAGTGGAC TGGACTGTAA ATCAGAGTTA GGAGGGCTTC TGATAGCTCC
94801 TATAGTTAAG GAATTTAGCA AGTGTGAGTT TTTTGGTAGT CTTTGGAATT TAGGAATTTG
94861 CCATGCCAGC CAAGCCATGA ATGCTCTACC AGTAGGTAAC TTTGTTTGCT TAATCTTAGA
94921 GTCTGTCTTA GTTGGTATAG GGGCATCTAT TTTGGTCTTT CAGATCCCAG ATATTATTAA
94981 TACAGATACT CTTGCAGTTT TGGGCTGATG TTTATATGGC TTATCTTTTT TGCAGCCTTT
95041 AATTTCAACC TGCCTTATGT TTATATTTGA AGTGAGATTC TTGCAGACAG TGTACAGTTG
95101 TTGTTTTTTT TTTTTTGAGA TGGAATTTCA CTCTTGTGT CCAGGCTGGG GTGCAGTGGC
95161 ACAGTCTCAG CTCACTGCAA CCTCCGCCTC CTGGGTCAA GGGATTCTCC TGCCTCAGCC
95221 TCTTGAGCAG CTGGGATTGC AGCCATGCGC CACCACACCC GGCTAATTTT TGTATTTTAA
95281 GTAGAGACAG GATTCACCAT GTTGCCCAGG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
95341 CGCCAGCCTC GGCCTACCAA AGTGCTGGGA TTACAGGTGT GAGACCTCGC GCCCAGCCAA
95401 ACTGTTTTTT TATGGGTGTA TTTATACCAC ACACATTTAA TGCAATTATT GATATCTTAG
95461 GGCTTAAGTT CATGAAGGGT AGTGTGGGAA CCATAGTCTC TTGGCCCACT AAATGTTTGC
95521 CAGAAATCAC TGACAAGGCA GATTGATTAA TAGGTGAAAA GGCATTTTAC CTATTGTTTA
95581 ACGTGTCTAT GTGGGAGCAT TCAGAATTAA TTACCTAACT TCCCAATGAG TTATAGATGC
95641 TTATATACCA TTTTATGATC ACAGAAAGAA TTGGGGCTTA GATTCTGGTA AAACAGGTTA
95701 TGGGAGGCAA AAGAGGTTTG GCTTGCAAAG GTGGCCTTGT TAGGTAGGTG AAGCCTCCCT
95761 CAGAAAGAAC AGATGGTAAA TGTTTCTTTT ATGATTTTAA AGTGTGAGAC TCTCAGTCTC
95821 TCCTGGATCT GGGGAAAGGT ATAGAAAGGT GAGGAGGCAT GGCTGCATTA ATGGAGATTC
95881 TCTACAGATG TAAATTTTTT CCCATTTAAG GCAGCTTTGC AAGCCCATTT CTGCCTGCTG
95941 GCCAAGCAGC AGCCATTTCA AAATATGTCA AAGAAATATA TTTTGGGGTA AAATATTTTG
96001 ATTTCTTTTA GACTGGTGGC CTTATAAGAA AAGGAAGAGA CACCTGAGCT GACACACATA
96061 CCCTTGCTCT CTCAACATGT TATGATGCAG TAAGAAGGCC CTCACCAGAT ACTAATTTCA
96121 TGCCCTTAGC TTCCCAGGTT CTAGAACAGT AGGAAATAAA TTTCTTTTCT TTAAGAGTTA
96181 GCCAGTCTGT GGTATTCTGT TATAGTATCA CAAAATGGAC TAAGTAACTA TATTATGATC
96241 ATCTTACATG ACTGATCCCT CCTACATCAT ACACATACAC AGGCCACATT TGGAACATTG
96301 TTAGAGGTTT CTCTGCCCAG TACAAATGTA CTACAAATTA TATATGTATT TTTAAATTTT
96361 TGAGTATCTT CAATAGTATA TTTTCGTAA CTTTTGTAGT CAAAATGTCA TTATAACATG
96421 TATTCAATAT GCATAATTAT TAGTCAGATG TTTTACATTC TTTCTTCATA CTAAGTGATA
96481 TGGTTTGGAT ATTTGTCCCC TCTAAATCTC ATGTTGAAAT GTAATCTCCA ATGTTGGAAG
96541 TGAAGCCTGG TGAAAGGTTT TTGGATCGTG AGGGTGAACC CCTCATGAAG CGCACTCTTC
96601 AGGGTAATCA ATGGGTTCTC ACTTTGAGTT CACAAGAGAT CTGGTTCTTT AAAAGAGTGT
96661 GACACCTCCC CCATCTCTCT CGCTCAGCTC TCACCATATG ATATGCCTAC TCCCTCTTCA
96721 CCTTCCACCA TGATTGGAAG TTTCTGAGG ACTTGCCAGT AGCAGATGCC TGCACCACAC
96781 CTCCTGTACA GCCTGCACAA CCGTGAGCCA AAAAAAATTA CTTTTCTTTA TAAATTAGTC
96841 AGTTTCAGGG ATTCCCTTAT AGTAATGCAA GAACGAAC TAACACTAAG TCTATTTTCA
96901 ATTTACAGAA TAGCTCAATC TGAAGTACCC TTTTCAACT TCACAGTAGC TACTTGTAGC
96961 TAGTGGGCAC TGATTTGGAG CGTGTCAAG GGTGAATTGT ATTATGCAAT TAACAGATTT
97021 TTTTATTGT TTTGCGAAAC CACGAGGCAT AGATTGTCTT ACTTCTCTG CTCCTGGTGT
97081 TGGAGTTGTT ATTGGGAAAC AACTTATTTT CCTCTTATAT TTATATGGAA TAAATAACCC
97141 CCAATATTTT CCTCCCCAAT ATCTGCCTTT TGTATGTTTT TTGAAGGCAA GTGCCTAGAA

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97201	TTTACTGTTT	TTGAAGCACT	TACTGAAAGG	ATTGCCATCA	AGTTGTTTTG	CTAATAGTAC
97261	ATGCCAGGCG	CTTGTTGGTT	TGCTTAATTC	AAGGTAACCT	GGATGAGAAG	AAGAGTTTTT
97321	CTCATCCATG	GCTCAGTGGA	GTATAGATTA	CTGATATTGT	GACTGGATGT	ACTCCTGCTT
97381	TCTAGTCTGA	GTTTTTGAAG	CTACCCTTAA	TCTTGGTTTC	AATTTTATCT	AGCCCTGTAC
97441	ATATCCAAGG	CTCTTTCCAA	AATGGTCTAC	GATTTGTTTA	GGAAGTTAGA	ATAGCTGTAC
97501	TTTCTGAACC	ACGGTTCCTG	ACATTTTCTG	GACTTCAAAC	ACATCCAGCA	TTTTATCGAA
97561	GTATTTATCC	TTCCTACTTG	GCTGGCTTCT	TCCTTGCCTT	CAGGTCTGAA	TTCAAATGAC
97621	ATTCTCCTGA	TGAAACTTTC	CATCCTTATT	TCTATTCTTT	TTTCTTATCC	CCTTCTTTA
97681	TTTTTCTCCA	CAGCACTCAT	CACTTATCTC	TACATTTTCA	TTATGTATTT	ACCTTATTGT
97741	GCACCTCCCA	CTACAAGACA	AGTAGCACCG	TAAGGAAACA	GGTGTCTGTC	TTTTTCACTG
97801	TGATGCTCCC	TGCACCTAGA	ACACTCTCTG	GCACCTAGCA	GGTTTTCAGT	AAATATATGC
97861	TGAACTAATA	ATGCTGGATA	TACATCTCCC	TCATGAATC	TCTAAATCCT	TCTAATTTAC
97921	ATTGATCAAT	CTTCTTTTCC	ATGTGCTTTT	GTATGATTTA	TTGCTCAAAA	TCTTTATTTT
97981	ATATGCAGAA	CGTGCACCTG	TATTTAATCT	TCATGTACGT	AAGTCTCCC	TTCTCTGAGT
98041	ATAATCTCTT	CAGGGCACTA	TCTGAGATAA	CTTTTTAACA	TCTCCATCAT	GAATCTTGTA
98101	CCTTTTCAAA	GAAAATGAGC	CAGTGATTAC	TGATGTTTAC	GGCTATTGTT	GAGGGTGAAG
98161	ATCATTATAA	TTTTGAAAAG	GGAAGTTGAA	TATTGTGAAG	GGAAAGATAA	CACTAGAGTC
98221	AGAAGACTTG	GGAGAAGGCA	AAAAACAAAC	TAAAAATGAG	CACTTTTAGT	CTCCTGACAG
98281	TTTCTCTGAA	TCAAATCCAT	AGTCTGTGTA	CAGCGTTGGC	TTAGAAGCAG	ATTTTTTTTT
98341	TTTTTTTTTT	TGAAATGGAG	TTTCGCTCTT	GCCCAGGCTG	GAGTGCAGTG	GCACGATCTC
98401	GGCTCACTGC	AACCTCTGTC	TCCAGGGTTC	AAGCGATTCT	CCTGCTTCAG	CCTATGGAGT
98461	AGCTGGGATT	ACAGGCTCCC	ACAACCACGC	CCAGCTAATT	TTTTGTATTT	TTAGTGAAGA
98521	CTGGGGTTTT	ACCATGTTGG	CCAGGCTGGT	TACGAACTCC	TGTTCTCAAG	TGATCTGCCC
98581	GCCTTGGCCT	CCCAAAGTGT	TGGGATTACA	GGCATCAGCC	ACCGTGCCCA	GCCAGGAGCA
98641	GATTTTTTTA	CACTCATGTT	TCTTTTTCCT	TCTGTCATCC	TGTTTCAGTA	TAAGCAGACC
98701	ACAGATAGAA	GTAGTAGATA	CCTCAGAAAT	TCCTGGAATA	ATTAATCCAC	GTTTCATCTGT
98761	ACTCCATCTG	CTCCTATCTC	ATGGAATATA	AAAGGAAAAA	CACCAAGATT	TCCCTAGGCA
98821	ATCTGTCTTG	ATTTTAGGTT	CCTCAACAGG	AGAGCCAGAC	AATGGCTGTA	ATAATATTGT
98881	CCCGGCCAAG	GAAAAACTTC	CCCTTTGCCC	TCCCAAGGTT	TATGGAAAAA	TACTGGCAAA
98941	ACACAGATTA	ACTGGAGAAA	AGGCATATAT	ATTTATTTCA	TCACAATTTT	ACAGGAGATT
99001	TTAGAATTAA	GACTGAAAGA	TACAGGGGAA	ATTGCCCATT	TTTATGCTTA	GGTTCAACAA
99061	GATAAACAGC	TGTATAGGGT	ACGATCTAAT	GCTAACAGAC	TGAGTGGGGA	AGCCCCGCAA
99121	GGCTTGTCTG	TCAAGATTCT	TCTTGACCTC	TCAGTGCAGC	ATTTCTTCCT	TCTGGTTATA
99181	GGACAAGACT	CTCTTTTAGA	ATGGGGGGTC	TTATGACCTA	CAGGCAACAA	AGGTAGGTTA
99241	GAGTAATACT	TTTAGGTTTT	ATGGCTGGTT	CTAGGGAAAA	GGAGTTCGGG	TTTGTATGGC
99301	CTACCTTGAG	GAGGAATTCT	GGTTTCTATG	GCTAGACTTT	GGGGAGAATG	GGACTTACAG
99361	ACAGGAAGGC	AGAAGGTGGT	CAGTGAAACA	CTTTTATAAT	CATAATCCCA	TTTTGAGTAT
99421	TTCTGTGTTA	TGGAATGTTT	GTTCCTCAT	TTCTTGAAAG	ATCCAGAGA	CTCCTCATTC
99481	AGTGTTGTGA	AAAAGTTCAG	GAAATGCAAC	TCAAAAATGT	GCCACTTTGT	TACGCTGATT
99541	TCTTTGAACT	GAGGGCACCT	AGGAAACAGT	AAATTCAGG	AAGGGCTTTC	GCTGAACTCT
99601	AATCAAAAAT	TTGAAAATTA	AAAAAAATTT	CAAAAAGGAA	TTTAGTTGTT	AAGATTCACT
99661	TCCCTGGGGA	ATCTCATCAA	CCAGAGAAGA	TAACTGTAT	CACAGGAGAG	GAGACTGGTG
99721	GTAAACACCA	TCTAAACAGA	CTTTGTCACA	GCTGTCACCT	ATTCCTTGAA	ACACCCATTT
99781	ATTTTTCTCC	AAAATCATAT	ACTCTCCCCT	AAGTTGCCTA	CATCCCCCTT	CTTCTCCCT
99841	TATGAATCAA	GAGAGCTTAT	AAGCTTCTAC	AGTTCACTGG	GATTTGGGGT	ATTCGCTTTT
99901	CTTCCCTCCC	ACTCCCCCTC	CCCTTTTTTT	GTCTTTGAGA	CACAGTCTTC	TGGCTCTGTC
99961	GCCACGCTG	GAGTGTGGTG	GCTCTATGTG	AACTCACTGC	AACCTCCTCC	TCTCGGGTTC
100021	AAGCGATCCT	CCCACCTCAG	CTTCTCGAGT	AACTGGAAC	ACAGGCGTGC	ACTACCAAGC
100081	CCGGCTTTTT	TTTTTCTTTT	TCTCCCCCGT	TTCTTTTTTG	GTTATTTTAC	TGGAGACAGG
100141	GTTTCTCCAT	GTTGTCCACG	CTGGTCTCGA	ACGCCTGACC	CGCCGTCCTC	GGCCTCCCAA
100201	AGTGCTGGTA	TTACGGGCAT	GAGCCACTGC	GCCCGATTTG	AAGGACCTCT	TAAATATCTA
100261	TTTAGAAATT	GGTCGGAGTC	CACTCCTTTC	CAAAAACATG	AGTCACAATC	CGGGAAAAGC
100321	ACGAGCGGCT	GAAAGTCAAA	ATAACCAGAA	CAAAACCTCC	ACTCATGCTT	AAAAAAGGTA
100381	TTTTGACAAA	ATCCTAATTC	GGCCAATTAT	TATTAGTATT	CAAGTCGAAG	GCTCGTCAAG

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100441	CCAGACTGGG	GATTGGGTCA	AACATAAACC	TTACACCAGA	CGGAAGGATT	ACATGCAAAT
100501	GAAGGATGCA	GATTCTGATT	TCCCATTTGGG	TATTTGACAT	TAGCCAATGG	GAGAATTCCT
100561	CACAGCCTAC	CTCCAGTCAG	TATAAATACT	TCTCTGCCTT	GCGTTCTAAT	GTAGTTTCAT
100621	TACATTTTCT	TGTGGCGATT	TTCCCTTATC	AGAAGTAGTT	ATGTCTGGTC	GCGGCAAACA
100681	AGGCGGTAAA	GCTCGCGCCA	AGGCTAAGAC	TCGGTCTTCT	CGTGCAGGTT	TGCAGTTTCC
100741	TGTGGGCCGA	GTGCACCGCC	TGCTCCGCAA	AGGCAACTAC	TCCGAGCGCG	TCGGGGCTGG
100801	CGCGCCGGTG	TATCTCGCGG	CGGTGCTTGA	GTACCTGACC	GCCGAGATCC	TGGAGCTGGC
100861	GGGCAATGCG	GCCC CGGACA	ACAAGAAGAC	CCGCATCATC	CCGCGCCACC	TGCAATTGGC
100921	CATCCGCAAT	GACGAGGAGC	TTAATAAACT	CTTGGGGCGT	GTGACCATCG	CGCAGGGTGG
100981	CGTTTTGCCT	AATATTCAGG	CGGTGCTGCT	GCCTAAGAAA	ACTGAGAGCC	ATCATAAGGC
101041	CAAGGGAAG	TGAAGAGTTA	ACGCTTCATG	CACTGCTGTT	TTTCTGTCAG	CAGACAAAAT
101101	CAGCCTAACA	GCAAAGGCTC	TTTTCAGAGC	CACCTACGAC	TTCCATTAAA	TGAGCTGTTG
101161	TGCTTTGGAT	TATGCCGCCC	ATAAAGATGT	TTTTGAGGTG	TTTTTAATGG	CTTTGAGTGT
101221	GGCACTTTTA	GTAATTTGTC	CTGCAGAAAT	TAGATCCATA	GAAACCTCAG	GAATTCCTAGG
101281	TATGTGGGAG	AAGTGCCATG	CAGCACAAAA	CATGTTTACA	GGGGTGATTG	GCGTTAAGTT
101341	TCACACACAG	CAGTTACTAC	ATTTTAGAGG	AAGGAAATTA	TACCCATGAG	TGCATTCCCTA
101401	ACTATCTTGA	ATGGAAGTGT	TAAAACCCGC	ATGCCCCACA	CAAGTTTGAA	TATGTCATAC
101461	CATTTGCTGT	AGCAATTAAT	GGCATAACAC	ATTGAGAGCA	CACACATTAC	CACTGAACAT
101521	TTGAGTATGT	ATTTCCCAA	ATGAGCTTTT	TTCCAGTTTG	GGGATGTTTT	GCTTTGTTTT
101581	GGGGTGGAGT	CTCCCTCTCG	CCCAAGCTGC	AGTGCAGCGG	CGTGATAACA	GCTCACTGTA
101641	ACCTCGAACT	CGGGCTCAAG	CGATCCTCTT	GACAGCCTTC	TGAGTAGCTG	GGATTACAGG
101701	CGAGAGCCGC	CACGCCCCGC	TAAGAGCATT	TTTCTAATTG	CCCACACTTC	TTATGCGACA
101761	CCCAGAAAA	TACAATTTTA	AATAAAGCGC	ATATGCAAAT	TTCCCTAATC	GTCTCCAATA
101821	TTCTCTGATT	TCTTTTTTAT	ATTTTAACCTA	GAAACAATTG	GAGGTTTCCG	CGTTGCTTTG
101881	TGTGGTTGTA	AATTTTAAGA	CTTCAGGAAA	CTTTTCCAGT	ACAAGACTTG	TCCACAGTGG
101941	ATATAGCAGC	TAAGGGGTTA	ACAAAATGAC	GTCAGAGTAG	CTACGGTAAT	GGGCAGGAGC
102001	CTCTCTTAAT	CTGCAACCAG	GCACAGAGAT	GGACCAATCC	AAGAAGGGCG	CGGGGATTTT
102061	TGAATTTTCT	TGGGTCCAAT	AGTTGGTGGT	CTGACTCTAT	AAAAGAAGAG	TAGCTCTTTC
102121	CTTTCTCTCA	CAGACGTCTC	TGCAGGCAAG	CTTTTCTGTG	GTTTTGCCAT	GGCTCGTACT
102181	AAACAGACAC	CTCGGAAATC	CACCGGCGGT	AAAGCGCCAC	GCAAGCAGCT	GGCTACCAAG
102241	GCTGCTCGCA	AGAGCGCGCC	GGCTACCGGC	GGCGTGAAAA	AGCCTCACCG	TTACCGCCCCG
102301	GGCACTGTGG	CTCTGCGCGA	GATCCGCCGC	TACCAAAAGT	CGACCGAGTT	CTGTATTCCGG
102361	AAGCTGCCGT	TCCAGCGCCT	GGTGCGAGAA	ATCGCCCAAG	ACTTCAAGAC	CGATCTTCGC
102421	TTCCAGAGCT	CTGCGGTGAT	GGCGCTGCAG	GAGGCTTGTT	AGGCCTACTT	GGTAGGGCTC
102481	TTTGAGGACA	CAAACCTTTG	CGCCATCCAT	GCTAAGCGAG	TGACTATTAT	GCCCCAAGAC
102541	ATCCAGCTCG	CTCGCCGCAT	TCGCGGAGAA	AGAGCGTAAA	TGTAAAGTCA	CTTTTTCATC
102601	AGTCTTAAAA	CCCAAAGGCT	CTTTTCAGAG	CCACCCACTT	ATTCCAACGA	AAGTAGCTGT
102661	GATAATTTTT	TGTTGTCTTA	ACAGAACAAA	TTTCTAAGGA	CCCCCCCCGA	AAGCATTAGA
102721	CTATGGTCTT	AAAGTTGATT	AACAGAAATA	ACGGTTTGGT	CAGTCTTGCA	GTGTAGGTTA
102781	TTCTGACCTT	TATTAAGGTG	CTATTTGGAG	AGAAGCTGTG	TAAGTCCACT	ATCATTCAGG
102841	CCTCTAGCTT	GCTATGATTA	GCATTTGTTT	AAACAACTTT	GTAAGAGTAA	GGGAAAAATC
102901	TGGTAAGTAG	TTAACTGGCG	CTTACTAGGC	ATTTTGTCAA	AGCTTTGAAA	AGATTAGAAA
102961	ATTGTGTCTT	GCGAGTTCCA	GTGTCTTCCT	CAAAATGCTT	AGGAAGATTT	TCTCAGCTCA
103021	ATACATAGTC	CCCTAGGTTT	TCTCATATAT	TATATATATA	TATATATATA	TATATACTGT
103081	TAAATTCATT	TGGCTGTAA	CATTAACCTG	AAATTTATTC	TGGTGCAAAA	TGTGAGGCAG
103141	GGATCTAACT	GGCTCTCATT	TTATCCATAG	CTAGCTACCC	ACTTTAAATC	TGTCAGTCTG
103201	TCGACCAAGC	ATAATTTAAT	CCCTTATATA	TGAATTTTAA	TATGTGTGGC	TTTGCTTGTA
103261	AATAGTCTAT	CTGGTTGCAT	TGCTTTGTCT	CCTCTAGGAC	TATGCACCAT	GACATGCCAC
103321	ATTCTTTTTT	TCAGTACTTC	TTGCCTGTAG	TTATTAAAA	CTAGAATTTA	CAAGTTTAA
103381	CCATTTTCTT	TCTGTTGATC	TTGCTTTTCG	GTTTTGGAGG	TTGGGGATTG	AGTACTGGAA
103441	GAAAATTTAG	AGGGATGGGA	ATACTGTACG	CAAACAAAAG	TAATATTTAC	TTTAAATTTT
103501	TTATATTTTG	TATTTTTTTA	TCATATAGCT	TTTACATCAC	ATTTTACAGA	CTAACTTTAG
103561	AACAACCACA	GAATGTCCAA	CATTAAAACT	ACTAATTCCA	AAGACCTTGC	CTCACATTCT
103621	TTTTTACAAT	AAATATTTTT	TACACCTAAC	ATTCTTTCTT	GGCCTACATC	TAGAATGTAA

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103681	ACTGATGTAC	CATACTAAAA	TCGCCTGACC	AACTGTCAAC	AACAACAAAT	CACACACACA
103741	AAAGATTAAA	TTTGAATTGC	ATCGTTTACT	TAAATTCATT	TGTGTTCCAG	CTTTTAATAA
103801	GGCAGTTTTT	GGTTTATAAA	GTAATATTTG	CATTTTAAAA	ATTATGAAAA	TGAATATGTC
103861	AGTTTGTTTT	ATGATTTCGT	TTTCTTGACT	CTTATACAAG	CGACTCTAAC	TGGCATAGAC
103921	ATTTGTTATC	CACAGACAGT	ATAGATATGT	TAGAGATGCC	AATGGACTTG	GTCTATGCCA
103981	AGGTGACTAC	TCACAAGCTC	TGGGCCCCAGC	TGAAGGTCAA	GTATTTTTTT	TCCAGTTATA
104041	GATGTGCTGG	ATCTGATGTA	TAGCGCTTGA	CTTTTTATAT	TTTCTTTATC	TGTAGGAAAC
104101	AAATGTGTTG	GAGGTACTGG	GTCTGACGAA	TAGCATAAAA	GAATAAGTT	ACATTACTGT
104161	CTGAGGATCA	GATGGACAGG	GGGTGGTAGC	TCAGTCCAGC	TATTTTCCAC	TCCCTCACTT
104221	ACATTCTTTG	CCCCCTCCTC	AACAGAACAA	GGATTCTGCT	GTAACCTCTC	ATTGACAGTT
104281	GATATTTAAA	AATTAACGAA	TGGATGAAAT	TCTCATTTGT	GAAAGAAAA	TTATTGAGCA
104341	TTTTGTATTT	GTGAGTAGTG	CAAACATTTT	AATATTATAT	TAAGAATCTA	TTGTTTGTGA
104401	TTAGAGGAGT	AATTAAGGAG	AGATTGGAGA	CAAAAAGGGG	GTGTTGTTTG	CAGAAATATAC
104461	CATCCAAAA	TAGACCACTG	TGGGATCAGG	ATTCTTTTGA	GCTAAAGGCA	CTTCAAAAAC
104521	AGCATTCAAG	AAGGGAATTC	TTCTAAACTT	TTCTTTCTGA	AAACAGGAGA	TAAAAGTTCC
104581	AATGTGAAAA	ATGCTCTGCT	TGTACCAGGT	GAAAAGACAT	ATTCTTCAGC	CCAGAGGCAT
104641	AGATGAGATA	ATTCTGCACA	AACACAGCAG	GGAGTCATAG	CCGAGAGACT	TCTATACACA
104701	AACAAACCTT	GTTAAAATAA	TCATATATTC	CTTTAATCTC	CTCATATGGT	TTACTTTCCC
104761	ACAATTGCCT	CTCTTTAACT	TAATGTGAAA	GCATTAGCT	TTTGCCATTT	CTTTGGGGCT
104821	TCACTTTTTT	ATGAGGGTTC	TCCTGTCCCA	TAAAATTTAC	ATTAAATACA	TTTGTATGCT
104881	TTCACTCTGC	TAATCTGTTT	TATGGCAAAT	GAATTATCAG	GTCCAGCTGG	AGACCCTAAC
104941	AGAGTAGAGG	TAAAATTTTG	CCTCCCTACA	AGATAGAGAT	TGTGTGCATT	AAATGTTGTT
105001	TGTTCCCAGT	TGTTCACTTT	GTCAGGCCCTC	TGAGCCGAAG	CTAAGCCATC	ATATCCCCTG
105061	TGAAGTGCAC	GTATGCCTCT	AGATGGCCTG	AAGTAACTGA	AGAAACACAA	AAGAAGTGAA
105121	AATGCCCTGT	TCCTGCCTTA	ACTGATGACA	TTACCTTG TG	AAATTCCTTC	TCCTGGCTCA
105181	TCCTGACTCA	AAAGCTCCCC	CACCTGAGCAC	CTTGTGACCC	CCACCCCTGC	CAGCCAGAGA
105241	ACAACCCCTT	TTGACTGTAA	TTTTCCACTA	TCTACCCAAA	TCTTATAAAA	CGGACCCACC
105301	CCATCTCCCT	TCGCTGACTC	TTTTCGGACT	CAGCCCGCCT	GCACCAAGGT	AGAATAAACA
105361	GCCTTGTTGC	TCACACAAAC	CCTGTTTGAT	GGTCTCTTCA	CACGGACGCG	CCTGAAACAG
105421	TTTAACAGGG	TTTTTCCTGC	CCAGTCACAA	CAAAGTGATG	TTATGCTGCA	GGCTGAAGTT
105481	TACAGCTAAT	GCTGTTGAAG	TCTAAAATCA	GTTTTGGTTT	GTTAGATTTG	GGTGAGATGG
105541	CTAAGATTCT	CAGAGAAAGA	AGTCAAGTTT	GGGGTGCAAT	TTTCAGACTT	AAAAATTTAG
105601	CAGTAGCCCT	TGCAGTTTTT	CCAATAGAAG	TGATTTAAGA	ATGTTTTTCAG	GAAATTTAAA
105661	ACAACAGTGA	GAAGCGTGTA	TGGAGAGTTG	AACTACACTC	CAGACTTGGC	TATAGGAAAG
105721	CACGAATGCT	GCTATTGTAT	TGCACCTTGG	AAAAGAGAAC	AAAGGAATAT	TTTCGGACAA
105781	TTTTAACATG	TCACATATGA	AAAGCTAAAC	GGAATCTGTC	AACACCTTGT	ACGTTATTAC
105841	AGGCTGTGAT	TTTAAAAAAA	CAATCCTTAC	TAATACATAC	ATAGTTGCTG	CTAGCAATAT
105901	AGTGTGTTGG	GTAAAAACAC	GAAAATGAGA	GTTTCAGGACA	ATATCCCAAC	TCTGAGCAGA
105961	TTTTTTTAAG	TAGTAACATC	TAAAATTAAA	CCATATTATG	TAATATTTAT	TTCTTTTCCA
106021	CAGTCTCTTC	TCATGCCTCG	TTACATTAG	CTAATTAAAA	GTCCCCTGAG	TATCATCATA
106081	ACCCGATTTA	CAGATGAAGG	CACGGTTGCA	ATGAGCTATC	ACCCTCTTCT	GAATGAGACA
106141	GTACAGTGTG	AAGGATAGCA	AAACTCCACT	CCCATCCTCT	TAGGGCTCTG	GCTGGACCAG
106201	CAAATTAAAT	TAATGTAAAA	TGGATTAAAC	GGAGAAAGGT	ATATGCATTT	ATTTAACACA
106261	GGTTTTACGT	GACACAGGTG	CTCTCATAG	GTAATGAAAG	CCCAAAAAA	GCAGTTAGCT
106321	ACTTATATAA	TGAATTGGAC	AAATTAGTAA	ATGTAAAAAT	GCGCTAAAGC	AAAGGGATTT
106381	AGGCTAGAAT	ATATAACTGT	GTAGAGAAGC	GCCCAGCAAG	GGCTAGTGCA	AGGTTTGTAC
106441	AGAATTCTCT	TGGCCTCAGC	CTCCTATCCT	TGAGAAGAAT	GTTGCTTTTT	TTAAACTACA
106501	GTGAGAACAT	CTTTCATATG	AGAATTTTAC	CTACTGCTTC	TAAGAAACAG	GTCAGCTTTC
106561	AAGAAAACAT	AAGGCCAGAG	TGATCTTTTC	ACGCCTGCTC	TTTTAAGTAC	CTTTGAATAG
106621	TCAATATGTC	TTCAAGCACT	TGAAAGACTT	AAAAAGTTTA	CCACTCCGGC	ATATTAGTGA
106681	AAGCCCTTAA	TATAAGCCCT	TATTTAAATT	CTCAGTCGAG	GGTATAAATT	CAGATTCAAA
106741	TAGTAGTGTC	GTAACGGGA	GGGAAAAACT	AAAGGGATTA	AAAAGTGAAA	CTATTGTGTT
106801	CTCCCTCGCA	GTCCTTAGGT	CACCTGCCCT	CGAGGGGCGG	AGCAAAAAGT	GAGGCAGCAA
106861	CGCCTCCTTA	TCCTCGCTCC	CGCTTTCAGT	TCTCAATAAG	GTCCGATGTT	CGTGTATAAA

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106921	TGCTCGTGGC	TTGCTTTCTT	TTCGCGTACC	TGGTTTTTGT	TGTCAGCTGG	TTAGACATGT
106981	CTGGTCGCGG	CAAAGGCGGT	AAAGGTTTGG	GTAAGGGAGG	TGCCAAGCGT	CACCGAAAAG
107041	TGCTGCGGGA	TAACATCCAA	GGCATCACCA	AACCGGCCAT	TCGGCGCCTT	GCTAGGCGTG
107101	GTGGGGTTAA	GCGAATTTCC	GGTTTGATTT	ATGAGGAGAC	TCGTGGCGTT	CTCAAGGTGT
107161	TTCTGGAGAA	CGTGATCCGG	GACGCCGTGA	CCTACACGGA	GCACGCCAAG	CGCAAGACTG
107221	TCAGTGCCAT	GGATGTGGTT	TACGCGCTCA	AGCGTCAAGG	ACGCACTCTG	TACGGCTTCG
107281	GCGGTTAATC	TTTTCGTCAG	TTTTCTTCCA	ATGGCCCTTT	TCAGGGCCGC	CCACTCCCTC
107341	TCAGAAAGAG	CTGTGATTGT	ATTCPTTCGG	ATGGTAACAT	CTCAATGGCT	TTACTCGGCT
107401	ATTCTGCCTA	GTATGTAGAA	CTATTATAAA	CCAGTTGGGA	GAGACCAGGT	TGTTTGGTCT
107461	GAGTGGCTGC	TAAAGCAGAA	ATCAGCTAAG	TAAACGAGGT	CTCCGAGATA	AGTGAGCTAT
107521	AAACTTCAAT	GCTATAGTTT	TGACATGTCA	AGCAACTTAA	CGTGACGCGC	GAGTCCGATA
107581	AATGAGTAGC	TCAGCTTTTT	AGTTTTAAAA	ACGAGTTGTG	CGTTATTTGT	ACGAGAGCCT
107641	AAGATGCTAG	CTGCCTGGAA	CTGAGTAGGT	GGATTAAAT	GGGTGTCAGG	TCTGTTTTCC
107701	CAGGCGTATC	TGACTTAAACG	TCAGCAAAAG	CTGTACTTTT	AGCTTCCCTG	GTAACACCTG
107761	CCGTCTTTAA	CCGCCCCCTG	CCGGTAGCGC	CAGAAGCCTT	TACTTCCATT	TCTAGTTGAG
107821	CTTGGCGTCC	TGCTGAGTGA	CGTCACCTCC	CCCTTCTCTG	GAGTAGGACT	GGCGGTTAAA
107881	GCTGCTTTGC	TATTTTTCAGT	CCTCAGGCTG	GAGGCTCCCC	TAAGCAGGCT	GCCTACGCAG
107941	TTCTGAAATT	CCCACTTAGT	AGACTAAGGG	AGTCTGTTTT	ATAAATAAGG	ACTCAAATTT
108001	CTTCTGACTC	CGAGGTCCGT	GGCAGCAGCT	ATAAGATGGA	AGCCCCCTCT	GATGTAAGAT
108061	TCTCAGATGA	CTTGCACTCT	CACTGTACCT	GTCAACCCAA	TAGTCTTCTA	TTCTGTCCTT
108121	AAATTGTAAA	TTCCAAAAC	GATTTAATTG	TGAAAGTTTC	AAACTGTACG	ACCTAGGAAG
108181	TGTCAAAGTT	AGGTGACCAG	ATTTTGTAGAA	GTCAGCCAAA	TATTCAGCAT	CTTTGATTTA
108241	GTAACAAATA	TATTGATGGC	TACTTCAGCA	AAAAAAATCA	ACTTTGTTTT	CTGGTTACTT
108301	TGCTAACAAAG	CTTCTCCTGA	CAGGAGGATA	TAGTGAATAG	GCAGTTGAAT	AAGTGAGTTC
108361	GGGTGAGAGG	TCTGAGCTGG	AGATAAAAAAT	GTGTGAGTCA	TCAGCAGATA	AATAAATGCT
108421	GAGACCAGAT	GAGATGGCTA	AAAACTGAAA	CATAATGTAG	TGCAGCATTG	TTTGTATAG
108481	TAAATGAGTG	GCAACTGTAA	AGTTTTTCATC	AGAAAGGACT	AGAGTGATCT	TAGATATCCAT
108541	AAAATAGAGT	ATTTCTCTAC	ACAGCCCTAC	TAAAGAATGA	GAAAGCTGTA	CTCCACTACA
108601	TACTCTGGTG	TACTCTGGCT	CAGTTCTTGG	ACTCCTCTTT	TCTTGGCTAA	CTCAACTGGC
108661	CTCACCACCT	ACATGCTCTG	TGCTCTGTCA	AATAGTTTGT	TCAACAGAAC	ACCACGGCCT
108721	AGCTGTAAGT	GCCACGTTAA	CTTCTAGCAA	TGCCAAAGCC	TGTGATAGTG	GCAGCTTCGG
108781	GCTGTTTCTC	ATTCCCAGGA	TGCCTAACCA	CCTCTCCAAA	TTCTATCAGT	TTGCTTCCAC
108841	CCACTTCAAG	CTTCAGAACG	AAACATAGAG	CTTAAGAAAT	ATAGGCCCGG	CAAGGTGGCT
108901	CACGCTGTGA	ATCCCAGCAC	TTTGGAAAGC	TGAGCCTGGT	GGATCACCTG	GGGTGAGGGG
108961	TTGAGACCA	GCCTGGCCAA	TATTGTGAAA	CCCCGTCTCT	ACTAAAAAAA	AAAAAAAAT
109021	TAGCTGGGCA	TGGTTGCGGG	CGACTGTAAT	CCAAGCTACT	CGGGAGGGTG	AGACAGGAGA
109081	ATAGCTTGAA	CTCGGGAGGC	AGAAGTTGCA	GTGAGTTGAG	ATCGCGCTAT	TACACTTAGG
109141	CCTGGGAGAC	AAGAGTGAAA	CTGTGTCTCT	AAATAAGTGT	TTGCAATTAT	AAACCATCTC
109201	CCTGACCTTA	AATCTCTAGA	CTCATATACA	ACTGCATATT	TGATGTATCT	AATTGAATAA
109261	TGGGCATCTC	GAACCTGTCC	AAAATATGTT	TATACGTAAA	CACCAAGTCT	GTTCTTCTC
109321	TGATATTTGT	CATGTCAATC	AATAGAATCT	CATTCTTCAA	GCAGCTTGGG	CCAGGAATTG
109381	TGCAATATTG	TTTGTCTCTA	GCTTCTTACA	ACTTTTACCC	AATGCAGTCA	GCTCTGTTGA
109441	AAATCAATCA	GAATACCTTT	CATTGTTTTT	TTTGCTGCTT	CTCTAGGAGC	AAGCTGCCAT
109501	GGCGGTTTGT	CTGAATGACC	ACAGTGACCC	CAAACCTGGT	TTTGTTTTCA	CTTTTAATCC
109561	CCCTGTCTAT	CAGTTTTTTC	TCTATCCAGC	ATCAACAGTG	ATCCTTTTTG	AAGGTATTAT
109621	GTCCACTGTC	TGCTGAAAAG	ATTCCACTGG	CTTTCCATCA	CCTTCATAAT	AAAAACCAGC
109681	ATCCTTATCA	TAGCCTACAA	GTAAGATGAC	CAACCATTAC	AGTTTGCTTG	ACTCTCAGGG
109741	GTTTCTCAGG	GTGTAAGACT	TACAGTGCTG	AAACTTAGAA	AGTTCCAAGC	AAACTAGGAT
109801	GAGCTGCTCA	ACCTACTAGA	TCTGTACTCT	GGCTACCCTC	TGACCTCATT	CTCTTCGCAG
109861	TTCTTTCTCT	TCACTGACCT	TGCTGTTTCT	GGAATGGACC	AAGCATTTCC	AGCATCAGCA
109921	CCTTTATATC	TATCTTTTCT	CCCTAGAAGG	GTCTTGTCTT	GGATATCTGA	ATGGCTCTAG
109981	ATCTCATTTT	ATTCAAGCCT	CTCCTCAAAT	ACCAACCTTA	CGAAAGAGAC	CTCCCATAT
110041	CATCCCTTGT	AAAATAAGCT	TTTCTGCTCA	TTTAGCATAT	ATATATATAG	TTGACTATCC
110101	TCAATAGCAT	ATATATATAA	CATTTCCCCA	CCTAGAATTA	TATATGTAAT	AATATATTTA

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110161	ACAAAAAATA	CATATAACTA	GATATATTTT	ATTTTGTGTT	TGTTCTCTCT	CCCCCACTG
110221	GAATATATTT	TTTGAAGGTA	GGGACTTTGT	TTTGTCCCAG	AAGTATCCCT	AGCACCTTGA
110281	ACAGGGCTGA	CGTTTAAACAG	GTAGTTTATG	GAGGTTTGT	GAATGAAAGG	ATGTGTGAAT
110341	TTTCTATGTA	AGTCTCCAGG	CTCTCCACTA	AGCCCACCAG	AATGCTAACA	CAATCAATTC
110401	CCCATCTCAT	TCCTTGACCT	GCCACTGCCT	GAAGCAATCA	GCGTGCAAGT	TCTCTTTAGA
110461	AAATCTGGGG	GATAGTCTAG	GGGTTGCAAA	TTAAGCAACA	TTATCTTTGT	TCTGAACAAG
110521	GACTGCATGA	GTGTTAGGAC	TGAAGAAGGC	CCAAGGTGGT	GGTGGGTATG	CCTAAGATGA
110581	GTATGACATA	TCAGCAATGC	TATGAACATA	GCAATGCTAT	GAAAGGCCAG	GCAAAACGTA
110641	ACAGGAGCTA	GTCGTGGCTT	ATTGTTACAA	CGACTATACC	TCCCATATGG	GTAATCGATA
110701	TCCACACACC	CCTCTACATT	GACTCTGGAA	TTCAGGAAAG	GGAATTAAAA	TTTTCTAACT
110761	TATGTACCCC	AATGATTTCA	ACAATATCTG	GCATATGAGA	TCAATAAATA	TCTTTAAAT
110821	ACCAACTAAG	AAAGACATAA	AATGACCCAC	CCTCCATACC	AGGCTCATTT	TTGCTCCTCT
110881	GATTCTGAA	ACTATCCAGA	ATGCAGCTAT	GAATTCTCTC	CATTGTTCAGT	TTTAAATTAA
110941	GCCAAGCTGG	GTACTTGTGT	AATTCCCTCAA	GAAATCCTGG	ATGAAAACCTG	TCAGGTGGAA
111001	AACAGGACCT	CAAAATAAAG	AGACATCCAT	CACTGAAGCT	AACATCGTGA	GGCTGAAATC
111061	AGTCCTATAA	CAATGGTACC	AAAAAGAGCA	CAATGAGAGG	CATTGTGTAA	TATTTACTCA
111121	GATGAGAGTA	AGATATTTCC	CTATCAGCTA	ACCTGAAGTT	CACATCCCTT	TTCCAGCTGA
111181	GTTCTGAAGC	TAGATGTACT	TAACTGGAAC	ACATAACTGC	ATCAGGAACA	TCCTTTAAAA
111241	CTATGGCTAC	CATGGCTTGA	CTGGACAAAC	CCCAGGCTTC	CAGGTTTAGC	ACAGGTGGCC
111301	CTTCACAGAC	CAACATTGCC	TATGCTACCA	ACCTCATGTC	CTACCACCCT	GCTTGCATCA
111361	TTTCTCTCTC	TGCATATATA	AAAATATATG	TGTATGTATA	TAATCAGCTT	TATTGATATT
111421	TAATGTACCA	CAAAATTTGC	CCACTTTAGG	TACAGTTCAA	TGAATTTTAC	CGTGTTTTCT
111481	TAGTTGTACA	ACCATCATCA	CAATTTAATT	TCGGAATATT	TCTATCACCC	AAATTTCCAT
111541	TTCTGCGTAA	AGGGGGAAAA	AAAAAGGTTA	ACTGCTGAAG	GCCGCGGTAA	CACTGAAAAA
111601	GGTGCCTTTT	CTCTCTAAAA	CAGATTTTAA	TCTCCCCTGA	ATTTAGTGTC	CTGGGTATTC
111661	CAGGAGCTG	AATAGGGTTT	CAATTTTCAG	GGTCTTTTTA	ATAGAGTAAA	ACTGTATTGG
111721	TGGCGATAAA	TTTAGTATTG	CTCTCAGTAC	ATGATTGAGG	GATACTTAAA	TGTCTCTGTG
111781	ATTTTATTTT	ATAATCGCTA	AAAGATGGTT	TTTTTTTTTTC	CTAAAAACAGG	GTTTTTGTTT
111841	TTTCTCAATA	AGCTTCTTAG	CTTCCCCTCC	GGCTCCCTGG	CTTGCCCTCAG	GAAATATTAG
111901	CTCATCAGTT	CTGATTGGTT	GACAGCTACG	AATGGCCCTC	ATTGATTGGG	CAGCGCTTCT
111961	TTGTCCCTTG	GAAACTAATA	CAAATTTTTA	ACACTACTTT	TTTTCCACTC	TTTCTTCAGA
112021	GTTGGAATAT	CGTTGCTCCC	CTACCCATAT	GTAGTGAGTG	GAGGGCAAAC	TTGGAGTTCC
112081	CCTAATCTTT	CCTTTTTTAGG	ATGTCAGCTC	AGTATCATTC	ATCTTAATTA	CACATTGAGC
112141	TTCTTGACTT	AATGGATACA	GCTCTTCTTT	TGTTTAGTTG	GGCGGCCCTG	AAAAGGGCCT
112201	TTGGTTTACA	AATGCAAGCT	GTGGAGAAAT	CAGCAACCTT	AACCGCCAAA	GCCATAAAGG
112261	GTGCGTCCCT	GGCGCTTAAG	CGCGTAGACC	ACGTCCATGG	CAGTGACTGT	CTTGCGCTTG
112321	GCGTGCTCCG	TATAGGTGAC	AGCGTCACGG	ATCACGTTCT	CCAAAAACAC	CTTGAGCACC
112381	CCGCGAGTCT	CCTCGTAGAT	CAGACCAGAG	ATCCGCTTCA	CACCGCCACG	CCGGGCCAGA
112441	CGCCGATG	CCGGCTTGGT	GATGCCCTGG	ATGTTGTCAC	GCAACACCTT	GCGGTGGCGC
112501	TTGGCACCCC	CCTTACCCAA	ACCCTTCCCG	CCCTTACCAC	GTCCAGACAT	GACTTCCCAA
112561	GAAGTGAACC	AAGAGCAAGT	GAGAGAATAG	GAAACCGATC	TTTATATATC	TACGTTACCC
112621	CTGCCCCCAC	CTCCAGCGGA	CACTGAGACT	GAAAAGCGCG	CAGGCGGGAA	ATGTGACGCC
112681	TACAGTCCGC	TCCTTTAACC	CCTCTTCCAA	GCCCCAGGAA	ATGGCGGGAG	CAGCGATTGG
112741	GGGAGGGTGG	GGAGATGAGG	GTGGGACCAA	GCAGGCTTGA	CCAATGGCCT	TTATTTTCTT
112801	AACAGAGCTA	CAGGCTTTGA	GGAACTGGGT	TAAGAATTAA	ATGTAAACCC	ATTCTGACTC
112861	CAGAATTATT	TTAAGTCGAA	CTTTTTTTTT	AACCGAATCT	CTCTGTGCGC	CAGACTGGAG
112921	TACATTAGAG	CCATCTCGAT	TCAGTAAAC	CTCTGCCTCT	CAGGTTCAAG	TGTTTCTCCT
112981	GCCTCAGCCT	TCAGAGTGTA	GCTGGGATTA	CAAGCGCTCG	CCGTCGCGCC	CGGCGTGTTT
113041	TTGTATTTTT	CGTAGAGACG	GGATTCCGCC	ATGTTGGCCA	GGCTGATCCC	GAACCTCTGA
113101	TTTCTGGTAA	TCCGCCCGCC	TCAGCCTCTC	AAAGTGCTTG	AATTACAGGC	GTGAGTCACC
113161	GCGACCGGCC	GAAATCGATT	GGTTTTGAAG	CCTTCAGTAG	CATTAAACG	AAAAGTGCTC
113221	CCAATGCATT	CCCTTTTGTC	TTAAATTGGT	TTCTTACAGC	TACTTTACTT	GAAAAGGTGG
113281	TGGCTCTGAA	AAGAGCCTTT	GCTTGGACCG	TCAGAGAGAC	CACAGTAATC	ACGCCCTCTC
113341	TCCGCGGATG	CGGCGGGCGA	GCTGGATGTC	CTTGGGCATG	ATAGTGACGC	GCTTGGCGTG

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113401	GATGGCGCAC	AGGTTAGTGT	CCTCAAATAG	CCCTACCAAG	TAGGCCTCGC	ACGCCTCCTG
113461	CAGAGCCATC	ACAGCGGAGC	TCTGGAAACG	CAGGTCTGTT	TTAAAGTCCT	GCGCAATCTC
113521	GCGCACCAGG	CGCTGGAAAG	GTAGTTTACG	AATAAGCAGT	TCAGTGGACT	TCTGATAACG
113581	GCGGATCTCG	CGCAGAGCCA	CGGTGCCCGG	CCGGTAGCGG	TGGGGCTTTT	TCACGCCGCC
113641	GGTGGCCGGA	GCGCTTTTGC	GGGCTGCCTT	AGTGGCCAAC	TGTTTGCGTG	GCGCCTTGCC
113701	ACCAGTAGAC	TTCCGAGCAG	TTTGCTTAGT	GCGAGCCATG	ACGGAAAAAC	AGCACAGCGG
113761	AACACCCAAC	ACTAGCGCAA	ATACGCCCAT	GAGCTGCTCT	ATTTATAGTG	TGTAAAGTGC
113821	AGTGATTGGA	TGATAGAAGA	CGCTAAATAT	GACGTTACAC	ACTCTGATTG	GTCTATCTTT
113881	AAGCCAGCAA	CAATCGTGCA	GTTTCACCGG	CTACTATATT	CTATTCCAAC	TCTACAGATG
113941	ATTATTTAAG	TGGTATTTTA	TTACTACTAT	TATTTTATTT	TACTTTTGCT	TTGTTCCCCA
114001	AGCTGGTCTT	AAACTTGGGC	TCAAAGGATC	TTCCCGCCTC	AGCATCCAGA	GTAGCTGGGA
114061	TTACAGGGGA	GCCCCACTGC	GCCGCTTGG	ACTTTAATTT	TTTAAACTTG	TCCTCTTCTA
114121	CATCTGGTTT	TCATAACCTG	AAGGCTGTGT	TTATTTTCCA	TAAAACAAGG	CATTGATTCC
114181	AAAGGTATTA	TAATTCCTCA	ATTCCGTATA	ACCTTCAGCT	CTTTAGGAAA	AAAAAATAAA
114241	AAAAAATAAA	GAGGGAATAC	TGCTCACCTC	CTCTCCGGAA	ATGTACCTTT	TACGGGAATT
114301	TCTGAAACCT	TTCAACAAGAA	TTGGATTCCCT	TTGTAATGCT	TTAATTGACT	TAGGAGTGTT
114361	ATTGAAATCT	ACAAAGCATC	TCAAACATAG	TAGGATTACA	CTATTACTCA	GAAACATTTT
114421	CTATGAGACG	TCTTTCTCTT	GATTATGCTC	TTTGAATCCT	AAACTTGCAG	CGTTCTGCAG
114481	CTTTTGTTTT	CTAAAGCCTA	GGTGTACTCT	GCCAGTCACA	AAATGGCGTT	TCTCCAGCAC
114541	TGCCGCCAGG	TACCACCAGC	TGGGAGTTGT	TCCTCTTGCG	GAGCAGGAGG	TGGACTTGGC
114601	CCAAGAGAAA	CTGGATAGTG	GTTCCGAAGG	AACATAATTT	AGCATTGCCA	AGAGCTAATG
114661	CAATCATTTT	GAAAATCTCA	AAACACTGAA	AAGTGGATTG	TGACCTTTTT	AAATTCACAA
114721	GAGACAGGCC	ACATTCTATC	TTTTGATTGG	TTTAGGCTAT	TTTCTTGAAC	AGCCATTTAG
114781	AAAGCAGATC	TATCATCCTT	CATTGTCATG	GAGCGTTCCC	ATTTTATTTG	AAACCAGTTT
114841	AACCCAATAG	AAAAAAGGGA	GCGAGAACCC	ATTATTTAAA	GTGGAACTC	CTGAATCAGA
114901	TAATTAGGAG	TATTTCTTTT	TCAAAAGTTG	CGTTTTTTTCA	GATACCTCGC	TTATTACACT
114961	AAGAAAGGTT	TATATCTTTC	ACAAAGGGTT	TACTTACAAA	AATCTTCCAA	TTTTGTATAC
115021	CTGTGTTTTCA	TAAGTACTTA	GCCGTCAAAC	CAAGATGTAG	AGTTTCCAAC	CGTTATTTTC
115081	CAAATTTTTTA	GAAATTACGT	GAAATATTTG	AATGCATGCC	TTCTCAATAA	AATGGGACGT
115141	AGGAAGCACT	GGTGCAGAAG	ATGGGTACAA	TACTTATCTG	GGACCACTCC	ATTATTTGGT
115201	TGGCACGTTG	TTTGAACAAA	AAGGGGAAAA	GCTCAGGTTA	CTTAGCATGG	TTCCGACTTA
115261	TTTGAAAACT	ACCACAGCAG	GAGCGGAAAT	AAGACCGCAT	TACCTCACTC	TCTGCTGTGC
115321	TGTGCTAGGG	GGTTATCCAG	AATAGGATTG	TAGAAGTGGA	TGTCGATTTA	ATAGTTTTTT
115381	ATTCTCCCAT	TAGCTGAGTC	TCTGATTGGC	AATGTGAGAT	CGTTTTAGCT	TATTGATACT
115441	TTGAAATGCA	CTTAACAGCC	ACAAACAAGT	TAAAGGGTTG	TTACCATAAA	ATCTTATCCC
115501	CAGGGTGTGC	TTGCATTTAT	CACCCGTGTT	TGCTTTCACA	CTAAGTGGAC	TTAACTCCCC
115561	AGCAGAAATG	CTGTCAGGGA	ACCGGTTTCG	TGGACCCAGC	ATTTAACGCC	TTTCGCAGGC
115621	TTGTGAGGCC	CATAAATATT	TGTTGAATAA	AAGAATGAGT	TGACCATGTC	ATGGTGCCTG
115681	GATTGCGTGT	GCTGACATGG	AACACAGGTT	GTAAACCTTA	ATACCAATTT	GGGGCATGTT
115741	GTATGGATGA	AAAGGGCATT	GGAAATTCCT	GAAGTGCATC	CCACATTGGA	CTGTGGAAAT
115801	AAGTTGCAAG	TGCAGAAACG	TTTCCACACT	TGCAGTTTGA	GTATTAATTG	CAGCGTTTGT
115861	GAATTCTGGT	GTTGTCTACG	ATTCAATCTT	GTTTGACGTG	AAAGGTATTC	GCGAGACACA
115921	TCGCTCTAAA	ACATTGCCAG	AAAATGTAAT	AGAGTTGATG	ACAACCTGGC	CTAACACGGC
115981	CTAAACTCG	CACTTTTCTC	TCCCTCCGCA	ACTATTCAAA	ACACTGTATT	TTACATTTCT
116041	TGCAAAATTA	AAACTAACAT	CTCTGGCAAC	GGACCTCTAA	AAATTTCTAA	TAAACTCCTT
116101	CGGATGCTTG	TGGCACTGCA	TTTGTAACCC	GCCCCCTCTC	AACCTACTCC	CTAAAAAAGA
116161	GCTGCTTTTT	GAGAGAGAAG	CGGTACCCTC	TGATGTTACT	GGGCGGCAGT	CTGCCTACAA
116221	TTTCCTTCAC	AATGAGGCAA	CCAGAGCGGC	TTTTTCTGTG	TGTTTGCTTG	CGTTGAGGGG
116281	AGCAGGACCA	TAGGCCCTAG	AGGCCCCAG	CTGCCTTCTG	AGACTGGGCG	AAACCCTCGG
116341	CAGCGCGCAG	GGGGCGCTAG	GCGCGGAGGG	GCGGGCACTG	ACGGGCACCA	ATCACGGCGC
116401	AGTCCCACCC	TATAAATAGG	CTGCGTTGGG	GCCTTTTTTT	CGCATCCTGC	TTCGTCAGGT
116461	TTATACCACT	TTATTTGGTG	TGCTGTGTTA	GTCACCATGT	CTGAAACAGT	GCCTCCCGCC
116521	CCCGCCGCTT	CTGCTGCTCC	TGAGAAACCT	TTAGCTGGCA	AGAAGGCAAA	GAAACCTGCT
116581	AAGGCTGCAG	CAGCCTCCAA	GAAAAAACCC	GCTGGCCCTT	CCGTGTGAGA	GCTGATCGTG

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116641	CAGGCTGCTT	CCTCCTCTAA	GGAGCGTGGT	GGTGTGTCGT	TGGCAGCTCT	TAAAAAGGCG
116701	CTGGCGGCCG	CAGGCTACGA	CGTGGAGAAG	AACAACAGCC	GCATTAAGCT	GGGCATTAAG
116761	AGCCTGGTAA	GCAAGGGAAC	GTTGGTGACG	ACAAAGGGTA	CCGAGAGCCTC	GGGTTCCTTC
116821	AAGCTCAACA	AGAAGGCGTC	CTCCGTGGAA	ACCAAGCCCCG	GCGCCTCAAA	GGTGGCTACA
116881	AAAACCTAAG	CAACGGGTGC	ATCTAAAAAG	CTCAAAAAGG	CCACGGGGGC	TAGCAAAAAG
116941	AGCGTCAAGA	CTCCGAAAAA	GGCTAAAAAG	CCTGCGGCAA	CAAGGAAATC	CTCCAAGAAT
117001	CCAAAAAAC	CCAAACTGT	AAAGCCCAAG	AAAGTAGCTA	AAAGCCCTGC	TAAAGCTAAG
117061	GCTGTAAAC	CCAAGGCGGC	CAAGGCTAGG	GTGACGAAGC	CAAAGACTGC	CAAACCCAAG
117121	AAAGCGGCAC	CCAAGAAAAA	GTAATTCAG	TTAGAAGTTT	CTTCTAGTAA	CCCAACGGCT
117181	CTTTTAAGAG	CCACCTACGC	ATTTTACGGAA	AAGAGCTGTA	GTACACAGAT	GAAATCCCCC
117241	AAGCAAATGC	AACACGCCCT	CAATTATATT	AGAATCACTT	GGAGAGTCGA	TAGAATTTTA
117301	ACATAGCCTC	ATCTAGTAAG	AATTTACTAC	TCAATCTATC	AAAGATAGCA	AGGTGAATTC
117361	AAATGCACCG	AGTTAAAATC	GAGTTTTTAA	GTCACCTGGG	TTTCGGTAGC	CGGAAGTCCC
117421	GCGTCTCACG	ACTCCAAGCT	AATTAGTCAT	AACCGTATTG	AACCAAGGTT	GAAGCCCAGT
117481	CCCAGGCTTG	AGGCTTTTTA	TTATACAAGG	TTAAAGTGGG	GATATTGCGT	TTTGGGGTCA
117541	ATATTGCTAA	AGTAGCATTT	TCCGAAATTG	GGTGGTCCTA	AGAAATGCTT	CTGGGATAGT
117601	TGGCAAAATA	TATGGCTTAA	CCACGCCCTC	TCCACAGGAG	TGGCTAGCGA	GCTGTCTGTC
117661	CTTGGGAAGG	ACGGTGACCC	TGCTGGCGTG	GETGGGCGCC	ACGTTGGCGT	CCTCTGAAAG
117721	CCCCGCCAGG	TAGGCCTAGC	TCGCTTGCTT	TCTGCAGCGC	CATCATGACA	AAGCTTTGAA
117781	ACGCAAAATG	CTTCTTTTGT	GCAGCGCCTT	ACCATGGGTG	CACCTACGGG	CTGTGCACTT
117841	GGTTTAGGCC	CTTGTCAGGA	CAAAGGAGCT	TAGTTTGTGT	GAGTTTTAGA	GCTGCAACCC
117901	AAAATCCCTT	GCTCGGTTTC	TCTGTTTTTA	GAAACGGAAG	CGCCCTGATT	GGATATTTGA
117961	AAATTACTGT	GCTTAACTGG	ATCGTGTTTC	ATCAGTCGTG	CAGGATTTTC	AACCCTGGTG
118021	GAGCCACAC	ATTCAAAAT	GAAGATCCTT	TTCTCAGAAC	TGCCCTTTTA	AGCTTTTGCA
118081	ATTTTAATTC	TGGGGGTGAG	ATTTTAATAA	TTGGACTTTT	TTGTTTACAT	CTGACAAGAG
118141	TATATGATGA	GCCAAGTTTA	CTCACTTTTA	CTTAGTGACG	TTCAATTTCTA	AAAGTTTATT
118201	TTTGCCTGTG	TGCATATGAG	TTAATAATCA	GTTGTATTTT	TCAAACGGTC	TTTTTTCAAT
118261	TGTTTTGCTT	AGCTCCTTCC	ATCGTCTAAA	GTCAGGGATA	CAGGCACATC	ACATCCCTGT
118321	TCCCCCTTCC	TCAAATAAT	ATGTAGCTAC	CTAGGTTTAT	CCTTTAAAAAC	AAAAATTCTC
118381	ACCTATTTTT	GTGAGAAATA	TACATGTTTT	TCTTTGAACT	AAGTATTTTA	CATACACCTA
118441	TCTATATACA	TGCATACTTG	TGGTTTTGTT	TTTTTAAAAA	AAAAAAAAAA	AAAACACGTT
118501	ATCTTTTGAG	ACTGGGTCTC	AGTCTGTTGC	CCAGACTGGA	CTGCAGTGGC	ATAATCACAG
118561	CACACTGTAA	CCTCCAATC	CTGGGCTCAG	GCTATCCTGC	AGCCTCAGCA	TCCGGAGTAG
118621	CTGGGATTGC	ATGCACGCAC	CACCAAGCCG	GGCTTTTTGT	TTTTATTTTT	TGTGGAGACA
118681	GTCACACCAT	GTTGTCCAAG	CTGGTCTAGA	AATGGCCTCA	AGTGATCATC	GACCTCCCAA
118741	AGTGTGGGA	TTACGGTCAC	TGTGCCTGGC	CTTGTATGCA	TAATTGTTTT	GTCTTTTGAT
118801	TAGGGTTATT	AATTTAAAAA	ACAAAGCCTG	GACGCAGTGG	CTCACATCTG	TAATCCCAGC
118861	ACTTTAGGAA	GCCAGATGGG	CAGATTACTT	GAGCTCAGGA	GTTCAAGACC	AGCCTGGGCA
118921	ACATGGTGAA	ATCCCATCTT	GACAAAAAAT	ACAAAAAATT	AGCAAGGCCC	AGTGGCACGC
118981	ACTTATAGTC	CCAGCTACTT	GGGAGGCTGG	GGTGGGAAGA	TGACTGGAAC	CTGGGAGGTA
119041	GAGGCTGCAG	TGAGCAGAGA	TCGTGCCACT	GCACTCAAGC	CTAGGTGACA	GAATGAGACC
119101	CAGTCTCAAA	ACAAAAATAA	TAAAAATTTT	TTACAACGAT	GTTATATACA	CTTCTGCATG
119161	TTGCTTTTCT	CTTAACCAAA	CTTTTCTAAA	ACCCTGTCAT	GAAAAAAGAA	ATCCTTCACA
119221	TGGAATAGCA	TAAGTTATTC	ATCCATTTCT	TATTGATAAG	CATTGATGTT	TCCAGTTACC
119281	ACTGCTGAAC	ATGGTGCAAT	TGAATAGAAT	TCCAGGGCTG	AGATTGCTAG	GTTTTAGGTT
119341	GTATTTTATT	ATTTTATTTA	TTTATTTATT	TATTTAGACA	GAGTCTTACT	CTGTCACCCA
119401	TGGTGGAGTA	CAGTGCCATG	ACCTCAGTTG	CAACCTTTGC	CTCCTGAGTT	CAAGCGATTTC
119461	TCATGCCTCT	GGTCTCCCGA	GTAGCTGGGA	TTACAGGCAC	CTGCCACCAG	GCCTGGCTAA
119521	TTTTTGTATT	TTTAGGAGAG	ATGGGGTTTC	ACCATGTTGG	CCAGACTGGT	CTCAAATCC
119581	TGGCCTCAAG	TGATCTGGCC	ACCTCGGCCT	CCCGAAGTGC	TGGGATTACA	GGTGTGAGCC
119641	ATGGCGCCAG	ACCTGGACTT	TGTCTTCTGT	TTCATCAGTC	CTTCTGTTGG	TTCAAGCACA
119701	GTATCACACT	GAAGACTGAT	GATTCTATAT	AAATATGGTA	AAGACTGTAC	ACCCTAACTG
119761	TTCTTATTTT	TTAATTTTAA	GGCAATTTTA	GATTCCAGCT	TTCCAAAGAA	TTGTGGAATG
119821	CTTAGAGCTA	GAGAAGCCTT	GGAAGTCATT	TAGTTTTTGT	TTTGTGAGAG	AAAATTCTGT

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119881 AGAGACTCTG TCCTGCTCTC ACTGAATACC ATCCCATAGT ACCCCCCAAC AGCTTTAAAG
119941 GGCAATAATA CCTTATGGAC AGTATGCTTT TCCTCAAATA TATTCTAAGC CATGGTCAAT
120001 GCAAAAGAGT GAGAAGGAAA GTAGAATAAG TTATCTAAGA ATCAGTGGGT GCTCTCTTTA
120061 AACTGATTTA TCACTCCCCC TTCCAACTC TCTTGAAGGT CACTCTGCCT CCCTTTCTAC
120121 ATAAGAACTC CTAAGTCCAA GGGAGGAAGG TAAGTTATTC TTATTCCTTG CTTAGAAAAA
120181 GAGAAAAATAG GTTTGGTAAG CATCCGCTTT CTGCTACCAT TCTCTGTGTT TCTGTGTTTT
120241 TTATAGGATC ATTCAATTAT TGGTTGGCTC TTGAGAGGGA ATGCAAGGTT CAAGGACACA
120301 AGCCTAGATC TTGCCTGTAT AGAACCTCAT GATGTTATGC TTCTCTAAAA TGAGGCCTGG
120361 AGGAGACATG TTGAAAGTGA CCCATAAATC TGCAGTATCT CATGTCTCTC AATGGGGACA
120421 AGGAGTACCA TGGGAAATAG CATTAGGTCA ATGACAGTAA CAACTCCAG GTGAGTTGAT
120481 TTATTCCTTT ATTTATAAAG TTGTTAATAT GCTACATAGT CCCTAATTTT GCCACAAATA
120541 GTCATTATTT TAATTTTATA TTTTCACTAT GATAAATGAA GGAAAAAATG AGTAGCAGTT
120601 AAGCAGTCCA TAAACCTACA TATAAAGCAA ATTGGAGATT TTAATAATTGA TTCTGGATGC
120661 TTAATAATCCT TCTCATTGAA AAAAAATTTC GTATTAGAAG ATTTCAACAT TCTTTAACT
120721 GAGAAGCATA ACATATAAAC AGAAAACCAC AGCAAAACAA AAATGCAAAG CTCAATAAAT
120781 GAACACAAAG TGAACACCAT AATAATTGCC ACACAAGTAA AAAACAGAA AATCAGCCAA
120841 CCCTCCCGA GCGCCTGAT GCTTGCTTCC AGTCACATTA TCACTCCATC TGCCCTAAAC
120901 ATAACCCCTA TTTTGATTTC CAATGCTGTA ATTTAGTATG CCTGTTTTTG AAACATATAA
120961 AATGGAAATA AAACAAATGT AATCCTATGT ACCTGACATA TTTCACTCCA GAACATTAGG
121021 TTTGAATAGA TTCATCTGTG TTGCTGTGTA TAACTTTAAT TCATTTTTAT TGTATGTAA
121081 TATTCCATGT TATGAGTGCA ACAATTTAGG TGTCTACTGT TGATGCATAT TTGCTTCCCT
121141 TTTTCAGCTA ATATAAACAA TACCGTGAAT ATTCTGTGT ATGTGCTCTG GTATATATAG
121201 GAATACATAT TTTGTTTGTA TACCTAGGAG AGGAATTGTT GGGTCAAATG CTAAACTCTT
121261 TTTGAAAGTG GTGATATTAG GTTTACATGC GATGAAATGA AAATTAAAC CACAGTTATA
121321 AACAGCATGG ATGAACCTCA CAAACCTAAT GTTGATGGAA TCTAGCTGGG AATTCCTGTT
121381 CTTCCATATA CTTCCCAATA TTTTTTTCCA ATTAAATTTG TTAATCTTTT GAAGATGTTA
121441 TCCATTGTGG CAGATGTGCA GTATTATCTC ATTATGGTTT TATTTTACAT CTTTGGCCCA
121501 TTTTCTCTTA ATTGGATTGT ATATCAGTCG ACTTGGGCTG CCATAACAAA AATACTAGAC
121561 TAGAATGCTT GAACAAAAGG AGTTTATTAC CTCACAGTTC TAAAGGCCAG GCCAGAAATC
121621 CTAAATTGAG GTGCCAAGAG ATTCAGTTTC TAGTGAGGGC TCTCTTATTG ACCTGAAGAT
121681 AGTTGCTGTC TTAGATTGTT TGGTGCTGAA CAGAATACCA GAGACCAAAT AATTTATAAA
121741 GAATACAGAT TTATTTCTTA CAATTCTGGT GGCTATAAAG CCTATGGTCG AGGGGCCAC
121801 CTCTGGCAAG GGCCTTCTTA CTGTTATGGC AGATGTGAGA TGTCATCTCA TATTCAAACC
121861 ACAGCAGTCG CCTTTTGTGT CCTCATGTGG CCTCTTCATA TGCCCATAAA ATGACCTCAT
121921 GTCTCTTCCT TTTCTTATAA GGACACCAGA TCTATCAGAC TACTGGCCTA CTCTTATGAC
121981 CTCATTTAAC CTTAAATATC TCCATAAAGT CCCAAATCC CTATCTCCAA ATATAGGCAC
122041 ATTGGGTGTT AGAGTTTCAA CATCAATTTT GGGGGAACAC AATTTAGGCC AAAAAGATTG
122101 TGTTTTTCT TGTTGGTTTA AGATAGCTGT CTTTTTGTCC TTTTGTCTT TTCTTTTTTT
122161 TTGAGGTGGA CTCTTGCTGT GTCACCCGGG TTGGAGTGCA GTGGCCTGT CTCAGCTCAC
122221 TGCAACCTCC ACCTCCTGGG TTCAAGAAAT TCTCCTCCTC CCAAGTAGCT GGGACTACAG
122281 GTGCATACCA CCGCGCCCTG CTAATTTTGT TATTTTTGAT AGAGACGGGG TTTCACCATG
122341 TTGGCCAGGC TGGTCTCAA CCCTGACCT CAGGTGATCC ACCTGCCTCG GCCTCCCAAA
122401 ATGCTGAGAT TACAGGTGTG AGCCACCAAA CCTGGCCTGT CTTTTCTGTT TTAAGTTTTT
122461 AAATTTTGCT CACGAACCTT TTATCCATT TATGTGTTGC AGGTATTTCC TCTGTAACCT
122521 GTCTTCACTC TGTCAGAGGC TGGAGTGACG TGGCACAATC ACAGCTCACT GCAGCCTCCA
122581 CCTCCAGGA TCAAGCGATC CTCCCATCTT ATCCTCCTTA GTAGGTGGGA CTACATGTGC
122641 AGGCCACCAT GCCCAGCTAA TCTTTGTATT TTTTGTAGA GATGGTGCTG TTGCCCAAGT
122701 TGGTCTCAA CTCTGAGCT CAAGCAATCC ATCAACCTTG GCCTCCCAAA GTGTTGGGAC
122761 TAGAGGTGTG AGCCACCACT GCACCCAGCC AATGATATCT CATGATGCAT TAAAGTCATT
122821 AATTTAGTGT ACTCAAATTA AGCACACTGC CTTTTATGC ACAACCTTT TTGTATCTTA
122881 TTTAAAAAAT CATTTTCTAT TTCAAGGTCA TGAAGATCTT ATTTTATAAT ACCTTCTTGT
122941 GAAATTAGTT CTCAAGACTA CCCTCACTTC TAACACCAAT TATAAGTTGG GAGGTCTGTG
123001 GTTCCCAATC AACCTTAGGT TAGTAATTTG CTAAAAGGAC TCACAGAACT TGCTGAAGCT
123061 GTTAGCCTCA TGGTTACAA TTATTATAGG ATATATAGCT TATTATGTCA TTCCAATGCA

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123121	ATGTAAAATT	ATACAACACTAC	TTTTAAAAAG	ATTTTAGCAT	TTGACCCAAC	AATTTCACTC
123181	TGAGGTATAC	AAACAGCAGA	TATGTGTGCA	CATATATACC	AAGACACATA	CACAGCAAAA
123241	TTCATTGTTT	GTAATAGTTG	AAAAGGGGAA	ACAACTCAAG	GAATAAAGAT	TAAAATCAGC
123301	TGAGAAAAGA	AACACACAAG	GCAGTATTAT	GGATCGAATT	GTATGCAGAT	CTCCCTTGCC
123361	CCCAGAAGAT	ATGTTTAAAG	TCCCAACTCC	CAGTACCTCA	GAATTGTGGC	CTTATTTGGA
123421	AATAGGATAG	TTGCAGATAT	AATTAGTTAA	GATGAGGTTA	TAGTACAGTA	TGATGGGCTG
123481	GTGACTTAGA	AGAAGTAGTA	TATATATATT	TTTTAATAGA	ACTAGTATTC	TTCTAAGGTG
123541	GTCACGTGAA	GACAGACACA	CACAGGCAGA	GACTGAGGTT	ATGCAGCTGC	AGGTCAAGGA
123601	ATGTCAAAGG	TTGCCAGCAA	GTACGAGAAG	CTAGGAAGAG	TCAAGGAAGG	ATTTTCCTAC
123661	AGGCTTCAGT	GGAAGCATAG	ATCTAATGAT	ACCTTCATGT	CAGATTTCTA	GCTTCCAGAA
123721	CTACAAGAGA	ATATATTTGT	TGTTTTAAGC	CACCCTAGCT	TCTAGCTCTT	TGTTACAGCA
123781	GCCCTAGGAA	ACTAATATAG	GCACAATCCA	GGCAAGTTCC	AAATATGAGC	TTCCAGTTGT
123841	CCTCTCCAG	TAATATGAAC	AGTATTACTT	TCCCAGCATT	AATGTGTGAC	AATACACATG
123901	ACGTACAGAG	CAGTCCCCAC	TTATGCACAA	AACATATGTT	CCAGGACCTC	CAGTGGATGT
123961	CTGAAACCAT	GGATAGTACT	GAACTCTATA	TAGCTGTTTT	TTCTTATACA	GACACAGCTA
124021	TGATAAGGCT	TAATTTATAA	ATTAGGCACA	GTAAGAGATT	AATAACAATA	AATTAGAATA
124081	ATTGTTAAGA	ATATACTGTA	TAAAAGTTAG	GTGAATGTTT	ATTTCTGAAA	TTTACCGTTT
124141	ATTATTTTTG	GACTGCAGTA	GACCACAGGA	ACTAAAACCA	TGTAGAAACC	GTATACAAGA
124201	GAAGTGTATT	TCACCCGAGC	CTCAGTGTGC	AGTTTTAATG	GCCTGCCATG	GTTGACTGCT
124261	CACATGGCCG	ATCTTTTAGT	CTACCTCCAC	AGGTAGAGCT	GATACTGTGT	GGCTCAAAGT
124321	TCCTATTATA	AATCACATTG	TTGACTGTGT	GGTGGTCAAA	ACCTCCAGGT	AAACAAAGAC
124381	ACACTTATCA	GTGAGAACAT	TTCAAGGGTC	TAAAATTTCAT	CTCCCAGTAG	CTGAGGGCAA
124441	AGGCTAGACC	TCTTTTTGGG	TAAGATAAAT	TTTTTACCAT	ATACTTTATT	TTGCTTTTCA
124501	TGTTTAACTT	TATTTTGCTT	TTCATGTTAG	TTCCCCTGGA	ATTGTTTTTT	GTGTATAGTG
124561	TGAAGTAGGG	GGTCAAGTTT	CTTTTTTTTT	CTTTTTGT	CTTTTTCTGT	TTAAAAGGCT
124621	ATACAATTGT	CCCATGCCAT	TTATTTACAA	GAGTCCTTTC	ACCATTGTTG	TATGGTGCCA
124681	CTTTAGATGT	AAATCAATGT	CCATATTTGT	TTGAGCCTGT	TCCATTGCTT	TGTCTATTTT
124741	TGGACAACAC	TGCCCTGATT	ATTGTCATTT	TATCAGTTTT	GATATTTAAT	AAAGCAACAG
124801	ATTTGTTTTAT	TTTGGGCCCT	TGGATTGTGT	TATTAAATTT	GAACCCTGTT	TGCAATTTTC
124861	TATAATAAAG	CTTATTGGGA	ATCTGATTAG	GATTACAATG	GTTTTGTAGA	TCAGTTTGGG
124921	GACAATTAAT	ACCTTTAAAA	TATTGACCGC	TTCAACTGTA	AATATACTCC	TCCATTATTT
124981	AGTTTTCTCTG	TTTAATTTAT	CTGAGTAATA	CATTATAGTT	TTCTTCGTAG	AAGTCAGATA
125041	CGTAGAAAAAT	TCAAAGCCCA	AGTGCAATAG	CTCATGTCTG	TAATACCAGC	ACTTTGGGAG
125101	GCCGATGTGG	GTGGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGACTGGCC	AACATGGTGA
125161	AACCTCATCT	CTAGTAAAAA	TACAAAAATT	AGCTGGGTGT	GGTGGCGGGC	ACCTGTAATC
125221	CCAGCTAATC	AGGAGACTGA	GGCAGGAGAA	TCGCTTGAAC	CCAGGAGGCA	GAGGTTGCAG
125281	TGAGCCAAGT	TCCTGTCACT	GCACCCACC	CTGGGCGACA	GAGCGAGACT	TCGTCTCAAA
125341	AAAACAAAAA	AAAGAACATT	CAAATAATCA	ATGTAGATAA	TTCAAATAAC	TAAAAAATGA
125401	ACAGTTATTA	AAATATCAGG	ATATAAAAGC	AAAAAAATCA	ATAACCTCCA	TATATACAAA
125461	ATGGCCAGTT	AGAGAAAAAA	AAAAGAATAG	GCGAGACTTA	AAAAGGCTGG	GAATCTCCCT
125521	GAAAATCTTT	GAGAGCCTTG	GCCCTGCCCT	CAGGGATTTT	TCTGGCTTCA	TGCCCAGATA
125581	CGGGTACAGT	TCCTTGTTTA	AAAAAATTTT	GCTCCATCAA	TCAACAAGGG	GCTCCTTCCT
125641	CAGAGACAAA	GGACCTCCAT	AACACCGGAC	ACTAGATGTC	TAAGGGACAC	CTCTTAAGGA
125701	AGTTAGACTT	CCAAAGAATG	GTGTTTCCTC	TGTCCCCAAA	CTCTGGAAC	CACAGCACAA
125761	CTGCTCCTTG	GAGTTCGGTT	TCAAATCTAC	AAGGCTGTCA	TGGAGTTGTC	AGACCAAGTC
125821	CGTGGCCTCA	GTGTCCGGAT	GTACGGTGCC	CTTGGCACCT	GAATGTGAGA	ACATGACCTC
125881	CCTGAAACCA	CCACAAGTAT	TGTTTCATGT	TATGTATGTT	TTTTCTTATC	TGAAATTCCT
125941	TTTCTTTAAA	AATTCAAATT	ACATATTTTG	CAAGCCCCTG	AACAAGCTTC	ATGAGCATTT
126001	ATTGAACCCA	CAGCTTTTAA	AACCTACTGA	ACACTTTGCT	CTATGTTGTC	ATTCATATC
126061	CACCAATTAT	TTAATTATTG	ATCAATATTG	TTTCCTTAGT	GTTGGGATCA	TTTATGCATG
126121	TATTTCTTTT	ATATTGCATA	TTTTATATTT	CTGCATTACA	GTTATTACAT	ATTACTTTTG
126181	CTACAGTAAT	AGTTCAAAAG	TGTACATCCA	AAATTTAGCT	GTGAAGTGGG	TGGACTGAGG
126241	CAGAACTGGA	GGCAAGAAAA	TGTCACAGTA	ATTCTAAAAA	AGATGATGTA	CAATTAGAGC
126301	AAGAGAGTAG	CACTGAAATT	GAAGAAAAAT	AGATGCGTTT	GAGAGAAAAAT	TAGGAGGTAG

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126361	AATCAACAGA	TTAGATGTAG	GGATGAGAAG	GGTCAAAGAT	GACACTAGGG	TTTTTAACTG
126421	GAGCAAGTAG	GTAGACAGAA	CATTTCTTCC	TGAAAGGGCA	GGTCAGATCA	TGTGTTGTCT
126481	CAAAGGGCAT	GAAGAGTAGA	AAGCCTGGGA	CAGATCCTGA	GATGACCAAT	ACCCATGGTG
126541	CAGGGAGAGG	GAGGGAGATC	TGCTAAAAAG	ACTGCAAATG	TCAGGATAGT	AGAAAATCAT
126601	GAGTGTGTGA	TGTCCTGGAA	GTTGAGACAG	TATCACATTT	GAGAACATTT	AAATTGGTAA
126661	CTCTGACAAA	AAGCTGGAGG	CCAACGTGTA	ATGCCCATGA	GAGTGAGAAG	CTCCCACACT
126721	TTTGTGGGCA	TCAGAAAGCC	CACCAGGTTT	CTGCAGTGAA	GATCTGAGAA	GGATCCTCTT
126781	GTGGCTTTGG	CAGGGAGAGA	AGAATTATTA	TGAAATACAC	CCCAGAACCT	TCTTCAAAAC
126841	AAAGGCCTAC	TCTCAAGGGG	AAAACATTTT	GCCAGAGTCT	TATCCCAGCT	GGGAGAAGGT
126901	AATTCTTCCC	ACTGCAGCCT	CATCTAGGCT	TTCTGTCTCA	CTTAAGGGAA	GAAAATTAGT
126961	CAACAGGGAT	CAGAGCTTCA	TGAAAATAAA	TTGGAAATGG	TGCAGCCAGG	AAAGGAGCAA
127021	AGGCTGTAGG	AGGAGGAGAA	GGAGGAAGAG	GAGTTGTATC	ATTATAAATA	CTTGAGGAAG
127081	AGGAGGAGAA	GGAGGAGGAG	GAGGAGTTGT	ATCATTATAA	ACACTTGAGG	AAGAGGAGGA
127141	GGAGAAGGAG	GAGGAGGAGT	TGTATCATT	TAAACACTTG	AGGAAGAGGA	GGAGGAGAAAG
127201	GAGGAGGAGG	AGGAGTTGTA	TCATTATAAA	CACTTGTGAC	GGTCCCAGCC	CCAAGATATA
127261	GGCATGCTAA	TAAACTGAGG	CTTAACACTT	TGACTACAGA	ATGCTGCTTC	TCCCTAACAC
127321	CATCAAGGCT	CCAACCTGAAT	AACAATGAAT	TATGAATGAA	AGAGCTGTAA	GGAGAGACAA
127381	AAGTTAGAAT	GAGACAAGTA	TTGTTATCTA	GAGATGCCAA	GAAGGCAAGG	AAGATAACTA
127441	AAAAGGCACT	CTGGATTTAG	AAATAGGAAG	TCATTAGTGA	CCTTGTAAT	AATGGAGCCA
127501	GAGGAATACC	AAGGGCAGAA	GCCTCACTAT	AGTGTGTTGC	ACCTGTCAGA	GGTCAGGAGG
127561	TGTAAGTAC	TCTCCACAG	TGTGGCTTTG	GAAGAGAGAA	GTCAGCAGCT	GCATGGAGAT
127621	TTGGGAGAGG	GAAAGCTTTT	TTTTTTTTTT	TTTAATTGGA	AAAGACTGAG	CTATGTGTAA
127681	ATAGAATAAG	ACAGGAAGAG	TGTAGACACA	GGAAAGAGGG	CAGACAAAAA	CAAGTGCACA
127741	GTTATCTAAG	GGAAACAATG	GGATCAAGCT	GCAAGTATAT	AAACTTGTCT	TGATAGAAGA
127801	ATCCTTGATC	TGGTTTATTC	AGTGTTTGGT	CCAAACCCAC	ATCCCTGTTC	TGCTGTCTC
127861	TGACTTGCTC	TGTGCCCCAG	AAGCCCAGCT	TCTACAGATA	GCATTAGCTG	GGCAGCCCTG
127921	CCCTCTTGCA	ACAGCTGGAT	TTGGCCAGTG	ATCAGCCCAG	CAGGAATGTA	GATGGCAAAG
127981	GAGAGAGAGG	TTAGTGTACT	TATTCCTGTC	ATCACCCCCC	TGCTTGGTGG	GCAGCTCTTC
128041	CTCCACAGTC	CCAGCTCTGG	CCTAGCTCTG	GTTACAGGTT	CCCTCCCAT	GCCTCTTCAG
128101	ATTTAAAGGT	GTGTCTGTCA	GGGTATAACT	GGGAGCTAGA	AATTGCACTG	AAATTGAACA
128161	AAGAATTTTA	TGGGAATGGT	TGTTAACTAG	TTATAAGAGG	ACTGAAAATG	GAAAAGTGGA
128221	CAAACGTATC	AGAGATAGTA	ATGACAGAAA	GCAACTACCA	CCTCCAGGTT	TAGGAGAACA
128281	AGGAAAAGAT	TCTTTGAAGA	GATCCCCAGA	ACTGGGACCT	CTGAGGAGTG	TATGCTGGAC
128341	CACTGATGAT	GATATGTCTG	TAGATAGAGG	CATGATGAGG	CTGATTTTAG	GACCATGGAA
128401	GATCTCCAAA	CTGAAGCCAA	CTGCTGTTAC	TGGATTCAAC	TGCCACTGCC	AGGTTGAAGA
128461	ACCCATTCTG	TGAGGATGTC	AACAAACAAA	GTGGGAAATC	TTTTACATC	CTTCAGCCC
128521	TCTAGTCTTC	CTCCAGTGCT	TTCTATTGGT	AGGGTTTGGG	GAGGTGGCTA	GCAAAGCGGT
128581	ATTGGAAGAG	ATAGAAGAGA	CTAAATCTTC	ATAACCAGCA	CAGGGTGACA	CTGGATCACT
128641	ACTGTTGCTG	ATCTTGGGCT	GCCTCATATC	CCCTGTTCTT	CCCATTAGCC	CTGTCACAAC
128701	TTGTAGATA	TCCCTTCATT	ATATGCCCTT	CATATATTCT	TTTGGTTTAA	CTTTTCTGT
128761	TGGAATCCTA	ATATGGCACT	CCTCCATTTT	TCAGGACCAA	AAGAGTATAA	AAGATTATCT
128821	TTTACCAAAA	AAAAGACAAA	AAACTGATCT	AATTCTGAT	TTGATCATTA	CACAATCTAT
128881	ACATGTATCA	AAATATCACA	TAGTACCCCA	TAAATATATA	CAACTGTGTC	CATTAAAAAT
128941	AAAAATTAAA	GAAAAGATGG	TAAATATAGC	TCTGTCAGGC	AGTGGAGGTT	TTACCACGAT
129001	GGCTGTTATT	TCCCCCATGA	AGGGGGGAGT	GAGGGAGCAG	CTGAAAGTAG	GTGCTTATAG
129061	GGGTATAGAG	GGGCTCAAAG	CTTTGAGAGA	GGAGAATGTC	TGAAAGAGCT	GCCAAATAGC
129121	ATGCAGGTCC	CATGGGGGCA	GAGCCTCTGC	TCATTACCA	GTGCCCTCTC	AATATCTACA
129181	CTTAAGCCTA	ACACAAAGTG	TGTGCTTAAT	AAGTATTTGC	TGAGTATGTA	AAGTGGAAC
129241	AGAACCAATC	TGGCAAACCT	TGTAGGACTG	TGGGCAATG	AAGATCAGTC	AGGTAATAATC
129301	TGTGGATATA	AATTTATATT	GATCAAAAAA	TTCAAGGTTA	GGTGTTTTTC	TTTCAGTCATG
129361	CTCAACGATG	CTTCAGCCAT	GCTCAACTCT	TCTGTAGCCA	CAGAAAAAAG	TTTACCATA
129421	ATCGAGCTGT	GTCTGTGTCT	GAATAATGAA	AAGACCATGA	TGCAAGGGAG	TTGGAGACAC
129481	AGAAACAGTG	TTTGAAGTAA	TGGGTAATGG	AAGCATGCTA	CCAGGGAAAAG	GAAAGAAGTG
129541	GCAATAGGAA	GGAACAGAGA	TCTGTGGTCC	TATGTCCCCT	GAGCATATTC	ACATGTTAAA

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129601	GCTAATTCAG	TTTTCAATCA	TCATTAAAT	TTTGTTCTTA	AATATATGGC	CATTATTTTC
129661	CACAACCACA	CTAAAACTTT	ATTACCTCTG	GCAAGTGACT	ATGCAAGTAA	CTAAGAGCAA
129721	AAATATCCAC	AACTACCATT	TGAGCTATCA	ATTTAGGGAA	AGTCATCTGG	CTATAATCTA
129781	AGTGACCCTC	CACTGAATGT	CAGTATCTTT	GCATATGTGA	TTTAAATCTG	GGCCTTCGCA
129841	ACACCATGAA	CTGTTCTTGT	CTTGAATATC	CAGATTGAAG	GAAATAATCT	GAGTAGTTAC
129901	GAGTCCTGAA	GCTAGAAAGA	TGGAAACCCC	ATTTGCTCAT	CAGAAAGCCT	TAGAGCTTGG
129961	GCGCTGGCGG	GTCTGTCTC	ACCGGGACAG	AGGGGCTCTT	TCCTCCCCAT	CTGATAGTCT
130021	GATAACTAGA	GAAGCCGGCC	AACTTATTCT	CCAAGAAGGA	GCCATCTTAG	TTCTCTCTGA
130081	AATGTTCCATA	TTTAGAAATT	ATTGTTTGTC	AGTAATTTAA	CCCCTTAATG	GGCTTGCCTT
130141	GTGGTCCATA	CCACTGAGTG	CAGAGCTTGC	CTGGAAGAAT	TGTGAGGGCC	ATTCCATCTT
130201	CCAGGCAGTA	GAGTTCAGTA	CTTCTTTAAA	ATTGCTGCTG	AACTCTGTAT	TTGAAAAGAA
130261	AGAATCATTT	GGGTGTGGTA	GCTCACACCT	GTAATCCTAG	CGCTTTGGGA	GGCTGAGGTG
130321	GGAGGATCAT	TTGATGCCAG	GAGGACCATT	TGAGACCACC	CTGGGTAACA	TAGCAAGACC
130381	CTGTCTTTAG	AAAAAAAAAA	TACAATAAAA	TAAATACAAT	AAAAATAAAA	GCAAAAAGAA
130441	AGAGTCCATC	TTAGGGACAG	ACTGTAACTA	CTCACTGGAG	CTTACCTTTA	CATAGTTTCA
130501	GATCAATTAT	AATAAAACAC	TTTTGTGCAG	ATTCAATAGG	ATTATTTTAA	TCCCCATCAT
130561	CTCTCTGAGT	TTCCAGTCAG	TTTCTCTGCA	TGTAGACACC	CTTCTCCAGC	CCACCATTGT
130621	CTCTCTCTCT	ATAGCTCCAC	CAACAAATCA	GAACCTTTTC	TAACTGCACC	TAGTGCACCT
130681	AGAGTCTACT	CCAGAAATGCT	CATGGAGAAA	GTTTCTGAAA	GGTAAACTC	TGAATGATAT
130741	TTGTAGCTAA	AGGGAGACTT	GCTAGAGACA	ATAAGCTAAT	AGTTGTAGAC	TTCAGTAGAA
130801	GAGGAATGAC	ACTGCAATGT	CAGGGTGCAG	GACTTCAAGA	GGGCAGAGTA	TGGAAACCCA
130861	ATGGGAAAAA	TGCTCACCAG	GAACATGAAG	AGAAGGAATT	ACGTGTAAGG	ATTTCTCAAT
130921	GTGTTCCCAA	ATTTGCCCAG	CAGAGGGAGG	CCTCGGGTTG	ATGGCAGGCT	GACCACACAA
130981	TTAAAGAAGG	CTGAACCTGG	GGGCTTTTAA	CAACCATCGT	GGGCTCTACT	GTAAGCATTT
131041	AGAAAAAGAA	AGTTATCCAT	TCAAAAATAT	ATATATTTTT	AAACTTCAGA	ACAAAATTAT
131101	GAAGAGCTAT	ATTTACTTTT	CTACATTCTA	ATTTTTATAA	ATCTGAGTAT	ATTTTGCATA
131161	TATTGTTATA	GTACATATTC	AATTTTGTAT	TTTGCTGTTT	TCACTTAACC	ATTTTTACTA
131221	GATTACTCTG	TGTTCATAAAT	AATCACTTTT	TTAAAACTTT	TATTTTTATT	TATTTATTTT
131281	TTTTTTGAGT	CAGAGTCACA	CTCTGTCGCC	CAGGCTGGAG	TGCAGTGGCG	TGATCTTGGC
131341	TTACTGCAAC	TTCCACCTCC	TGGATTCAAG	CAGTTCTCCT	GCCTTAGCCT	CCTGAGCAGC
131401	TGGGATTACA	GGTGTGCACC	ACCAAGCCCG	GCTAATTTTT	GTATTTTTAG	TAAAGACGGG
131461	GTTTCACCAT	GTTGGTCAGG	CTGGTCTCCA	ACTCCTGACC	TCATGATCTG	CCCACCTTGG
131521	CCTCCCAAAG	TGCTGGGATA	ATCACTTTTT	ATGCTGCATA	ATTCTTCAGA	TTTGTTCAGTA
131581	CGACTGTATT	TACACTCATT	TGTTTTATTA	GAAAGAATTC	CAGAATATTT	TGCTGCCCT
131641	AATTAATTTT	ACAATTAATA	TGATTTTGAA	ATTGGGTATT	GGCTCCTTCT	GAATTGGTTT
131701	ATTAAAATAT	ATTCTAATGT	AATTTATGAC	ATTTTCATCA	TATTAGCATA	TTTATTCTGT
131761	TAGAATTTCA	TAATTTATAA	AGCTACAAAC	TGTATGTGAT	ATAGCTTGTA	ACTTTATCTC
131821	ATAACTTTAT	GCAGTTACAA	GTAGAAATAA	AATGTTCCCC	TCAAGATTGC	TTAAAATTTT
131881	ATTATAAACA	AGTGTAACAA	ACAAAATCAC	TAAAACACTC	CCTCTTTTTT	CCCCCAAAT
131941	GCATGTTTTCC	ATTTTAACAG	AACCCGTATT	TAATCAGCAG	ATTTCTATGG	TGGCTAGATT
132001	TGTAGACTAA	ATATTAAAAG	TCCCAAAGCA	AATGCATTTT	TCTCTTAAAT	TTTACTGACT
132061	TTTTTTTTTT	TTCTTTTTCT	GAGACGGAGT	CTTGCTCTGT	CGCCAGGCT	GGAATGCAGT
132121	GGCACAATCT	CGGCTCACTG	CAACCTCCGC	CTCCCGGATT	CACGCCATTC	TCCTGCCTCA
132181	ACCTCCCGAG	TAGCTGGGAC	CACAGGCGCC	CGCCACCACG	CCCAGCTAAT	TTTTTGATTT
132241	TTTAGTAGAG	ACAGGGTTTC	ACCGTGTTAG	CCGGGATGGT	CTCGATCTCC	TGACCTCATG
132301	ATCTGCCAC	CTCAGCCTCC	CAAAGTGCTA	GGATCACAGG	CATGAGCCAC	CGCGCCCCGC
132361	CTACTGACTT	TTATCCAAAG	AAAATATAAG	AGCTCTTCAT	CATAACGTAT	GTTTCTTGCT
132421	CTTGTATTAT	AATATGACAC	ATTTAGACTT	AAACTGATTT	GAAGGTTTAT	GACATTGTTT
132481	AAGTTATTAC	ATAATTAAAT	CATAAAGATA	ATGACTAGTT	TGAACACTG	ACAGCTCACA
132541	CATCATCAGT	TGAACAGCAG	AAAGCTTACT	AAGCTACTTT	CTTATGTTTC	TGTCTCCAG
132601	CTACTAAAAG	AAACGAAACC	CTTCCAGGTG	TTAAGGCAAA	ACTTTCCTCC	CCCTTCTTTC
132661	TATAAATCTG	ATTCCATGTT	AGTGAAATTT	CTACTGATGG	CTTTGGTTTC	CTCTATAGTA
132721	GAATAGAGAT	CCTATGGCAA	AAGTCATGTC	TGACATGGTA	GCAAATAGAA	ATGGGGAAAA
132781	GGAAGGTCTG	CAAGAGCCAA	TGTGGGAAAT	GGGGAGAGGA	CTGACTACAA	AAACCCAGCA

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132841 GGAATTCCAG AAGAAAAC TCCTCAGGACGG GCACATTGGC TCATGCCTGT AATCCCAGTA
132901 CTTTGGGAGG CCGAGGTGGG CAGATCACTT GAGTCCAGGA GTTTGAGACC AGCCTGGTCA
132961 ACATGGCGAA ACCTCATCTC TACAAAAAAT AAAAAAATTT GTCAGGCGTG GTGGCATGCA
133021 CCTGTAGTCC CAGCTACTCA AGAGACTTAA GTGGGAGAAT CACTCGAGCC TTGGAGGTGG
133081 AGGTTGGTGA GCCGAGATCA CGCCACTGCA TTCCAGCCTG GGCGACAAAG TGAGACGCCA
133141 TCTCAATCAA TCAGTCTCCT CGAAAAGCAA CATTATGGAG AGACAGGATT CCGTCAAGGC
133201 CTGGGGCACA CAGGAAAATA TTAAGGCAGA AGAGAGTTTC CTCCCCACAC CACACCGTAT
133261 CCCACAGGCA CTGCGGATGT GCATATGCAA GAGGGGTTGA TCCTAAGAAT TTAGAGTCAC
133321 AGAGGAGGAG GCACCAAGCA GACTGTGGAG AAAGTCATGA CCAGAAAGGG ACAGAATGTA
133381 AAGCTTCAGC TGATTATCTG GCCTCAGGGA TTCCAGAGGA ACTGGTCCCA ATGGTCTCCT
133441 GGTGATGTAG GTTCTTAGGT TTCTTTTACA GGGGTTTTCT GGGAGATCGT TGACCCAGTT
133501 AGCATTTCAAG CAACCTCCAC CCTGCACATT TATTCTTTCC CCTTCACCTG CTTAGGTTTT
133561 ATCTGTCCAG GAAATAATAA TAAATTTATT GAGCCCTGGA CATGTACCTG TAAAGCTCCT
133621 TAAAGATGAT GCCTTCTAAC TCCTCATTCA ACAGATACAA AAACATTACA ATAAAAATGAC
133681 TCATGCAAGA CACCCAGGTA GTTTATAGCA GCTAATAAAA ACAGAATAAC TATAAATATAT
133741 GGTAAAGTTA TAAAAGTTAC ATTGAGTATA CTTTATAAGA ACTGCTTATT GAGTTTGCCCT
133801 AATAACCACA CAGCACAATA ATAATATGTA TATATTTTTA AATATGTGTA AATATGTGTA
133861 ACACAAACTT GTAGAAGGTA TATCTGAGTA CAACCCTATT CTGTTTGGTT ACCTTTTCTA
133921 GTTCATTATG TAAGTGGCAT AGCTACCTAA GGACTTATGC TTATAAATGT TACTCAAAAA
133981 AATACAGAGG ACATATGTGG ATAGATAATG GAAGAGATAA GATAGGTAGG TTGAAGGGTT
134041 GGGCTGCCCC TCCACACCTG TGGTTGTTTC TCGTTAGGTG GAATGAGAGA CTTGGAAGG
134101 AAAGAGACAC AGAGACAAAG TATAGAGAAA GAAAAAAGG GGTCCAGGGG ACCGGTGTTC
134161 AGCATACGGA GGATCCACC GGCTCTGAG TTCCCTTAGT ATTTATTGAT CATTATTGGG
134221 TGTTTCTCGG AGAGGGGGAT GTGGCAGGGT CAAAGGATAA TAGTGGAGAG AAGGTCAGCA
134281 GGTAAACACG TGAACAAAGG TCTCTGCATC ATAAACAAGG TAAAGAATTA AGTGCTGTGC
134341 TTTAGATATG CATACACATA AACATCTCAA TGACTTGAAG AGCAGTATTG CTGCCAGCAT
134401 GTCCACCTC CAGCCCTAAG GCAGTTTTCC CCTATCTCAG TAGATGGAAT ATACAATCGG
134461 GTTTTACACT GAGACATTCC ATTGCCCAGG GACGAGCAGG AGACAGATGC CTTCTCTTG
134521 TCTCAACTGC AAAGAGGCGT TCCTTCCTCT TTTACTAATC CTCCTCAGCA CAGACCCTTT
134581 ACGGGTGTG CGCTGGGGGA CGGTGCAGTC TTCCCTTCC CACGAGGCCA CATTTAGAGC
134641 TATCACATGG GGAGAAACCT TGGACAATAC CTGGCTTTCC TAGGCAGAGG TCCCTGTGGC
134701 CTTCTCAGT GTTTTGTGTC CCTGAGTACT TGAGATTAGG GAGTGGAGAT GACTCTTAAC
134761 GAGCATGCTG CCTTCAAGCA TTTCTTTAAC AAAGCACATC TTGCACAGCC CTTAATCCAT
134821 TTAACCCCTGA GTTGACACAG CATATGTCTC AGGGAGCACA GGGTTGGGGC TAGGGTTAGA
134881 TTAACAGCAT CTCAAGGCAG AAGAATTTTT CTTAGTACAG AACAAAATGG AGTCTCCTAT
134941 GTCTACTTCT TTCTACACAG ACACAGTAAC AATGTGATCT CTCTCTCTTT TCCCCACAGG
135001 AGGTGATGGC CGGAAGAACA TGGCAGAGGG CAAAACAAAA CAGCATTGGG AACAGCTCT
135061 GTTTAAAAGG AGACTTGTGA ACAGCAAAGA GTAGAAAGGG TTCTCTTACA ACTGAAGCCC
135121 ATGGAAGACA AATGTGTA CTGCTGAGTTT TAAGGCAATA GGAGTAGTGG GACCTAGGGC
135181 ACACCAGAGA GCATATTAAC TCTCAAACCT TAAAAACAT TATATCTGCT GGACACAGTG
135241 GCTCACACCT TAATCCTACA ACTTTGGGAG GCCGAGGCGG GCGGGTGTAG CTTGAGCCCA
135301 GGAGTTCGAG ACCAACCTGG GCAACATGGC AAAATCCCGT CCCTACAAA CAAACAAACA
135361 AAAAAACAAA TTAGCCAGGC ACGGTGATGC GTACCTGTGG TCCCAGCTAC TCAGAGGCTG
135421 AGGTGGGAGG ATCGCTTGAG CCCCAGGAGG TTAAGGCTGC AGTGAGCCAT GATAATGCCA
135481 CTGCATCTCA GCCTGGGCAA CAGAGGGAGA ACCTGTCTCA AAACAAAAA AAAACACAC
135541 CATACCCAAC CACAATGCAT CTGTCTTAAG TACCAGTACC ACACCCCTCT ACTCACTACT
135601 AAATAGGTGA GTTCCCAATC CTGGTGAACA GGTTAAGCA TGTTATATTA AAGGTCTTAG
135661 GCTAGTGA CTTCCTACTCA TTAACAAAT ACTTATTGTG CATCTACTAT AAACCTAGTA
135721 CTGTGCTAGG TACAAAAGCA AATAATCTAA GCTCTATAAA CTTTACTTTT TCATCAACA
135781 AAATGGAGAT GTTTTAGGCA TCTACTCATC ATTCTGAGCT CCATCTTTTG TGACTGTAGT
135841 TGGCAGAGCT TTTTATCAGT TTCTCTAAAT AGCTCTACCA GTCCCTGGTG GATGCTGGCA
135901 TGCCCAAAGG ATCCATCCTG ATGGCCCTGT CTGCTTACCT TACCTGCCTG CCTTTGCAGC
135961 ACCGCTCTGC TCTTCTGCAG GACTTCCCTT ATCCTTTGGG GTCTTGCTGC TCTTAGGCTG
136021 CTCTGCTTGT TTTGATCTGC TTTGCATCAC ATGTATGTAA AGGTCCTTTC CTTATTTACC

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136081	CATGACCAAG	GTATTATGAG	ATTCTGGAAT	TTCCCCAAAC	CACATTGATT	GCTGGGAGAA
136141	TAGAAGAAGT	GGATTACAAG	TGGAACCTTAG	AAGGGGAGTA	TTCGAGAAGA	CGTCTCTGCA
136201	AATCCATTTA	GAGAGACCTT	TCTCCAGTGG	TGACTCAAAG	ATGCAGCTCC	TTTCATCCTG
136261	TGGCTTGGCC	ATCTTCAGCA	CATGGCTCCC	AAGGATGTCC	TCAGGATGGT	CTCTAATCCA
136321	AGGAGCCTGA	AGAGAAAAAA	AGGCATGGAG	TATTGTGAGT	GGTAGGTGGT	TATGGACCAG
136381	TTATGGAAGA	ATACACATCA	CTTTTGCCCA	CCTTCTACTA	ACCAGAACTC	ACACAGCCAT
136441	AGACACTGAC	AAGTAGGACT	TAACAAGAAT	CTAATTTTGA	GTCTAGGAAT	ACGACTGTAG
136501	CAAAATATTTA	ACAGCTTCAA	ACACAGGTGC	ATTGCTATCA	CTATGCTTGG	CCCAGGCCTG
136561	TCTCCCTTTC	CTGCCATGTC	ACAGGGGCCA	GCATTTATGT	CTAGATTGGG	TTGGTTGGGA
136621	TATTAAGACA	ATAATGAACC	AATACAACAT	CTTGAGCATA	AAACCAACTG	ATACAATGAT
136681	GTACAAGTCA	GATGATTCTG	ATGATTATGA	ATTATGTCAA	TAAAAGAAAT	GTGATACTA
136741	AGGTAATTTT	TGTTTTGGCA	AATTTTTGTT	TGTTTCATGAC	AGGATGAAAT	CCTGTCATTT
136801	GTAGCAACAT	GGATGGAATT	GCAGGATACT	ACATTAAGTG	AAATAAGCCA	GAAACAGAAA
136861	GTTAAACACC	ACATGTTCTC	ACTTATATGC	AGAAGCTAGC	TAATAAGTA	AATAAGTTTA
136921	TCTCATTGAA	GTAAAAAGTA	CAACAGAGAT	TACTAGAGGC	TGGGAATGGT	AGGGGAAAAG
136981	GATGATAAAG	AGAGATTTCG	TAAAATAAGT	TACAGCTAGA	TAAGAGCAAT	CAGTTCTAGT
137041	GTTCTATTTG	TACTACAGAA	TGGCAATAGT	TAACAGTAAT	AAATAATTTT	AAAGAGCTAG
137101	AAAAGAGGAC	ATTGAATGTT	TCCAACACAA	AGAAATGAGA	AATGCTTGAA	ATAATGGATA
137161	TTCTAATTAA	TTACCCTGAT	CTGATCACTA	TACACAGTAT	GTATAAAAAT	AACACTATGG
137221	GCTGGGCGCA	GTGGGCTCAC	CCTGTAATCC	CAGCACTTTG	GGAGGCCAAG	GTAAGCAGAT
137281	CACTTGAGGT	CAGGAGTTAG	AGACCAGTCT	GGCCAACATA	GTGAACTCC	ATCCCTACTA
137341	AAAATACAAA	AATCAGCCAG	GCGTGGTGGC	ATGTGCCTGT	AATCCCAGCT	ACTCAGGAGG
137401	CTGAGGCAAG	AGAATTGCTT	GAACCCAGGA	GGCGGAGGTT	GCAGTGAGCC	GAAATCGCGC
137461	CACTGCACTC	CAGCCTGGGT	AACAGAGCAA	GGCTCTGTTT	CAAAAATAAA	TAAATACATA
137521	AATAAATATT	TTTTAAAAAA	AGAACATCAC	TATGCACCCC	ATATATACAT	ATAATTATTA
137581	TGTTCAATTG	AAACATAATT	TTGAAAAATG	AAAAAATGAA	ACACAAATAT	GAATCAATCC
137641	TCTCCAAAGT	GATATACTTA	AAAGGAAAAA	AGTCCGAGGG	CTTAACTAT	TCAATCAAAA
137701	TTTTATTAAA	ATGCTATAGT	AATCTGGAAA	GTATTTTCAA	ATGAATTGGT	TTAAGGTTAG
137761	ACACAAAGAT	CAGTGAAACA	AAACAGAGAA	CCCAGAAATA	GATTCACACA	TCTATGGACA
137821	ACTGGTTTTG	ACAAAGGTGT	CAAGGCTATT	TAATAAGTAA	AAAAATCGTC	TTTTCAGTAA
137881	ATGTTTCTTG	AACAAGTAGA	CATCCGGTGT	GGGGGAGAGG	AGCAGGAGCC	TTACCTCAAA
137941	CTTTATGCAA	AAATTAAGTC	AAAATAGACC	ATAGACTTAA	ATGTAAAAGC	TAAAATTATA
138001	AACTTCTTTT	AAAAAATAGG	AGAAAATCAT	CAACACCCTA	GGATTAGCAA	AGATTTCTTT
138061	AAAACAAAAC	AACAGGTTTA	TAGTTTATAA	AACATAAATA	ACAAAATGAT	AAATTTTCATC
138121	AAAAGTGAAA	ATTTGCTTTT	CAAAAAACAT	TATAAAATGA	AAAGCAGGAG	GCTGAGGCAT
138181	GAGAATCACT	GGAACCCGGG	AGCTACAGGT	TGCAGTGAGC	CAAGATGGTG	CCACTGCACT
138241	CCAGCCTGGG	TGACAAAGTG	AGACTCTTCC	TAAAAAATAA	ATAAATAAAT	AAATAAATAG
138301	AAAAGAAAAA	GAAAAATCAC	AGGCTGAGAG	AAAAATATTTA	TAATACATGT	ATCTGACAAA
138361	GGACTCGCAC	CTGGAAAATA	TAAGGAACCT	TATAACTTAG	TAAGATGACA	AGCCAAAACA
138421	AAGAGTAAAA	GTTTTCAACA	GACATTTTAC	AAAAGAAAAA	ATACAAATGG	CCAGTATGCA
138481	CATGAAAAGA	TTTTAAACAT	CATTAGTTAC	TAGGGAAATG	CAAGTCAAAA	CCACAATGAG
138541	ATACTTCACA	TTCAACAGAA	TAGCTAATGT	TAAAAGGACT	GACAATCCCC	AGGGTGAGCA
138601	AGGGTGTTGA	GGAACTACT	CTCATATATT	GTGAATGTAA	GAGGACAATG	TTACAACTAC
138661	TTTGAAAAAA	GTTTGGCTGT	TTCTAACATA	AAATTAAACA	GTTATACAGC	CCAGCAATAT
138721	TTCTGGGTCA	TTTCTCCCAG	ATAAATGAAC	ACATGTCCAT	ACTATGACAT	GTACAAATGT
138781	TCATACTGGC	TTTGTTCAC	AATGCTATAA	ACTGGAAAACA	ACCCACGTGT	CCATCAACAG
138841	GTGAATGGGT	AAATAAATTG	TAATATATCG	GCCAGACGCA	GTGGTTCATG	CCTGTAATCC
138901	CAGAACTTTG	GGAGGCCAAG	ATGTACGGAT	CACCTGAGAT	CAGGAGTTTG	AGACCAGCCC
138961	ATCCAACATG	GTGAAACCCC	ATCTCTACTA	AAAAATTAGC	TGGGCATGGT	CACGGGCGCC
139021	TGTAATCCCA	GCTACTCGGA	AGGCTGAGGC	AAGAGAATCA	CTTGAACCGA	AGAGGCGGAG
139081	GTTGCAGTGA	GCCAAGACCA	TGCCATTGCA	CTTCAGCCTG	GGCAACAAGA	TGGAACTCC
139141	ATCTCAAAAA	AAAAAAAAAAT	TGCAATATAT	CTATATCTTG	GAATATTATA	AAGCAATAAA
139201	AGGGAATAAA	CTACTGATAT	ATACACAAAA	TGGATGAATC	TCAAAAATGT	GAAGGAAAAT
139261	AAAAAATACA	TATGATATAA	ATTCCATTCA	TATGAAATTT	TAGGAATGGG	AAAACCTAAGC

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139321	TGTAATTATG	GAAAGTACAT	CAGTGGCTGC	CTGGGGCCAA	GAGGATGGAA	GAGGCGGCAC
139381	AGGTGATACT	ACAAATGGAA	ACTATCTAGG	TTGACGGAAG	TGTTCTGTAA	CTTGATTACA
139441	GTAGTAACTG	TTTGGGTATA	TAAAACGCAT	CAAATTGTAT	AATTAATACA	GGTGTATTTT
139501	ACTGTGTATA	AATTATTCCT	CAATAAAGTT	GATTTTTTCAT	TAAATATATT	ATTTGCTAAA
139561	ATGAGGAGAG	ACAACATTAA	TCCTTAAATA	GTTAAGCACA	ATAAAAATAC	TACAATCAAC
139621	TCATTATATA	TGGAAATTAA	AGGAGAAAAA	TAGTGGTATG	ATTAATTAAA	ATAAAAAGAA
139681	AACCTTCTAA	ATTTTATCTT	AGCTCATAGT	TGTAAGAGCT	GCCATCCCTA	ACCAAGGCCA
139741	CCCTTGACCC	TTTCTCATGT	TCCATCTTTC	TGTTTGTTTC	ATAGTTTATG	TCTCACCAAA
139801	ATCTATCAGA	TAAACGTATT	CATATGAAGA	TTTAAATATA	TTACATGTTA	AGCCTTAGCG
139861	AATACTTCAA	TATCTAAAGA	AGGTACAAAC	AAAACAAAAA	TCAACACTTA	GTTATAAGAG
139921	ATTACATACT	CTCCAGGGAA	GACCTGAAGA	CTAGCCCCTT	TCTGGATCCC	ACTAGCCCCT
139981	CATCCCACTC	CAAGCCCTCC	CCTCCAATCC	CATATGCACT	GGGCATTTCAT	ACAAATAAGA
140041	CCATCAGCTC	TGGATATCTG	TACTGATTGA	TGCTCCTGCT	AACTACCTGA	ATGATTGCGA
140101	TGTAAGGACA	GCACTGCCTG	AATCCTATTT	ATCTCTCGCT	ATGCCATAGC	GGCCTTCCAT
140161	GCTGATGGCG	TGTTTGAGGA	TCCAGAGGGG	TCTTTGGTTG	GCAGGATTGT	TTTATTTCCC
140221	CAAGAGGAGA	GCCTTGATGC	AAAAATAGGT	GAAGAAATCA	GTACAACAAA	ACAGAAAGCC
140281	TAGAACTAC	TATGAACACA	ATAGAGCAGA	AGTAGCCTTA	AGAGTTGGTG	GAGAAAGGAT
140341	GGTCTATTCA	ATTACCTGGG	CTGAGAAACT	GGCTTTCATA	TGGAATAAAA	ATAAAATTAT
140401	AGCTATACCC	CATATCATAC	ACAAAAGTTT	CTACATCTAA	CAAAGACACA	GATAGAAAAT
140461	GTTTTTAAAT	TTTGAAGAA	AATAGTGCAG	AATTTTAGTG	CAGAAATTCT	TAGACTAGAT
140521	GCAAAAACAA	AAATGATTAA	AGTGGCCAGG	CACGGTGGCT	TATGCCTGTA	ATCTCAGCAC
140581	TCTGGGAGGC	CGAGGTAGGT	GGATTAGTGG	AGGTCATGAT	TTCGAGACCA	GCCTGGACAA
140641	CATAGTGAAA	CCCCATCTCT	ACTAAAATAC	AAAAATTGGT	AGGGTGTGGT	GGCTCACGCT
140701	TTTAATCCCA	GCTACTTGGG	AGTCTGAGGC	AGGAGAATCA	CTTGAACCTG	GGAGGCAGAG
140761	GTTGCAGTGA	GGGGAGATGG	CGCCACTGCA	CTCCAGCCTG	AGCAACACAG	CGAGACTCTG
140821	TCTCAAAAAA	ATCTAAAAAT	AAAAAGATTA	TTTTTAAAG	ACTATTTTAA	ACAAAAAAA
140881	TCGTTTAAAT	GATATGACAC	ACTACATCTA	ATATTTGGAA	AAGTACTTCT	TAATACTTTT
140941	AATAAAAAGA	GGCGCTGAGA	GCATACAACC	TATCCTCAGA	AGAGTGTGTG	ACCTCTAGGA
141001	GGGACGCAAG	CGCGTCTTTC	CTTCAATTTA	ACTGGTCATT	TTCATTTATT	TCAGGAACAT
141061	CTGAAGTAAA	CACAGTCACA	CGTTAACCTT	TAAAAATCTA	GGAGGTGCGT	AGCGATGATT
141121	CCATTACTTC	AATTTTTGTA	CTTTTGCATT	TTAAAATATC	ACAGGGAAGC	TCGGTACAGC
141181	TTCAAGGCTA	GGAGGGGTGG	CTCTCTCTTA	AGCCCTGTCC	CCGCCAGCCC	CAGACCTCTC
141241	GTCCCGCCCC	CATTGCCCG	TCCCCACCCT	CACTTCCCCA	TTTCCCCACT	CCCGCGGTCT
141301	CTTAACGCAC	CTCGTTTTTC	GTCCAGTGGA	CTCAGACCTG	TAGTCTTCCA	CCAGGATCGG
141361	CTCCTTTCCC	GGAGCTCTCG	CTCTTAGAGG	AAATTGAGAG	AAGCATCAGC	GGAGACCCAT
141421	CTGTGGCTCT	CCAGAGGGCG	CGGCATTGAG	ACCCAGATC	CAGCTGTGAG	AACGGACCCC
141481	AGGCTCACAC	CAGGCCTGCG	GGAGGCGGCC	CACCAGAGGC	GCTAGAAAAC	AAGCCTCGCG
141541	GGGAGGCGCG	CAGGGCGACT	GCAAGCTGTA	GGGGGCGCTG	GCGCCCTCAC	AGGCCAGGGG
141601	CAGGGCCGGC	GCTGCGGGCG	GGGCTCCTGC	GGCGTGAGGG	GCGGCCCCAG	GCCAGCAGCT
141661	GCGCCCTGGC	TGGGAGCCGG	GGAGCATTTG	CTGCTCTGCT	GGACCCTGAG	TCTGGCGGCG
141721	GGCGGCCTCC	TCTCCGCTCC	CCGCCCGCCA	TCCCCCAACT	CCCGATCTCT	CTGCTGCGTC
141781	TGGCCTCAGG	CTGAGACCCC	AACGAATCAT	TCCCCGCATG	GGAACATTTT	ATGATATAAC
141841	TGAATTGAGT	TTTATGTATA	ACTGAATTAC	GGATATGAGA	ATCTCAAATG	AGGACGAATG
141901	GTTTTTACGC	ACAAAACATG	AGACACAAAT	CTGTAAGAAA	TATAAAGTCG	TGACCACGTC
141961	CTTTCAGAAC	TTTAACCTGT	TTGCTGAAGT	ACGTCAGTAA	CAATGGCAGG	GAAAGGGTAT
142021	CTTAAATTTT	ACCACAGCCT	CAAAGAGGCC	ATTTCTGTGA	TCCGCTGAGG	CTTGGATTCG
142081	GCCTTCTGAC	CACGAGTCCT	GCGGCTATGA	AAGAGGAAGC	GCGGTTTCAG	GCTGCTCCTCG
142141	CGAGTCGTGC	AGCCCGCCCT	GCTCCAGCTG	GGGACACCGG	TGGTCACGGC	GCTTTCCAGC
142201	TGCAGATCCA	GGCGGCAGCC	CAAGATTTGG	TCCAGCCGCC	AAGGGGTGGC	TGCAGTGACT
142261	GACGGGCCTT	GAACGCTCCC	AGGACCCACA	TCTGGAGAGG	GAGGTGGGGG	TGGGGTGCTG
142321	AAGTCATTCT	TGGGGCCCCCT	GGGGGCGGGC	ATGGACCTGG	GTAAGGCCAG	AGAAATTGAC
142381	ACCTCGTGAC	ATCCCTGGAA	GAGAAGTACG	TTCAAGTGTCA	CTCCAGAGCT	GAAACCGCCT
142441	TCTGGCTGGT	CCCTCCTCAC	CTACATACTT	TTCTAATTTG	TCTGGAGCAG	GCCGGGCATC
142501	TGTATTATCT	GGTTATTTAA	ATATCTGGTT	ATTTAAAAGC	TCTCCATTAA	ATTCACATAC

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142561	ACGAAAATAA	AAATTAAAAA	AAATTTTAAA	AAAAAGAAAC	AAAAGCTCTC	TAATGACCAA
142621	GTCCTACACG	ATAGTGAATA	AAATTTTTTG	TGTGGTCCCT	AAAATTGAGT	TCATGCCTTT
142681	TCTGAAGTAA	TAGACGCCCA	GAGAAGGGAT	CGACTTACCC	ATCATGCCAC	AGAGATTAAT
142741	TGGCCCCAGA	ATTCCTTAGC	AGACCGTGTA	TATGAACGTC	CTTGCAATC	ATATAAATTA
142801	ACTGGGAAAA	CCTCATTTAG	TATGTTACAT	GCCTAGCGTT	TTGTGCCTGA	ACACCTTACA
142861	AGAACCAGGG	ACTATTGCCC	CAATATTATA	TTTCAGGAAA	GGAAGGCCCA	GACAAATGGT
142921	GTCACTGGTC	CACCTTCACC	CAGTTGGTAA	ATGAAACCAG	AAATTATAGC	TGTACCACAG
142981	AAAGGTGAAA	ACGTTTCCTT	TATAATTTCA	CATACAATCT	TTAATGGACC	CAGTGTCCAA
143041	CACATTAAAG	CAAGTGCTCA	GGAGTGACAT	CAAGATGTAA	AAAATAGTCC	TGTCCTCAGG
143101	GAGTTTAGGT	CTTGGAGAAA	AGAGACCCAA	GGAGACACAA	GACAAAGGGG	AAAGAGAAGG
143161	AGCGCTGAAG	ACTGAGGACC	CTGCCTGTGG	ACTGAAGTGA	GGATGGGGAC	ACCCGATGCC
143221	CGGAATATGA	CAGTTTGGAG	GGGCCTGAAG	GACTCTTCTA	TTCTCTATCA	GAAAAACAGA
143281	ATTACTCTCC	TAACCAGAAA	AGGTATTTCA	ATTTATATTT	TCCATCACAG	CACCTTTCTG
143341	GTGATAATTT	AATGTGTTTT	AAAAAATGTA	TCACAGTGAT	GGCCTGGTGT	GAAATAAATA
143401	ATAAAATTTT	AAGAATTAAA	AAATATAAAA	ATCTTTTATA	TAGACATTAG	GAGTTACAAG
143461	GATAACTGTG	AATTATAATT	AGTAATTAAA	TTGAAATACT	GATTATTTTC	ATTTTTATTT
143521	AATTATTTAA	TAAAACCTAT	TTAACATTTA	ATATTTATCA	GTAATTAAAT	CTAATTGTTA
143581	ATATTTATTA	TTATAAATTA	TTTTAGAATT	AAAAATAAGT	GTAGAAGCGA	GGCATGGTGG
143641	CTCAAGCCTG	TAATCCCAAC	ACTTTGGGAG	GCTAAGGTGG	GAGGATTGCT	TGAGCCCAGT
143701	AGTTCAAGAC	CAGCCTGGGC	AACATGGAGA	AACCCTGTCT	CAATACAAAA	AAATGAGCCA
143761	TGTGTGGTGG	TGCGTGCCTG	TAGTCCCAGC	CATTCTGGAG	GCTGAGGTGG	GAGGATGACT
143821	TGAGCCTAGG	CAGTCAAGGC	TGCAGTGAGC	CCTGATCTTG	CCACTGCACT	CCAGTCTGGG
143881	CAACAGAGCA	AGACCCTGTG	TCAATATACA	TATGGACAAA	CTTAAAATTT	AAAATGAAAG
143941	CATACTACTG	ATACAGAATT	GAGTAGAGAT	GCAAAGCTAG	TCCTATAACC	AGAACAATAA
144001	AGATAAAAAG	GAGAGTGGAA	GAAGGTATGT	CATGAATTTT	ATGATAAATG	GCAATTGCAA
144061	ATATCCTGTA	GCAGAACAAA	ACAACAAAAC	TGTAGATAAA	ACATATCCAA	CCCTTTGGAA
144121	GGCCAAGGAG	GGAGGATTGT	TTGAGCCCGA	AAGTTGGAGA	CCAGCCTGGG	CAACATAGTG
144181	AGACCTGTGA	TCTAAAAAGG	AAGAAAGAAA	AAAAAAGAAA	GGATGATAAA	GTAGACAATA
144241	TTGAAAGCCA	TTTTCTGCAA	ATACATAGTG	AATTTGATCA	GTAATTTTCT	TCCAACAGTG
144301	CAAAAATGAA	TAGATATTAG	TTGCTGAAA	TAAAAATCAA	ATATCCAACA	AAAAATATTG
144361	ACTATCTAAT	AGTATCTAAG	CTAGTAAATT	TGGCCAGTTA	TAAAATGTCT	TAAATTTTTA
144421	TTTAAAAAAA	GAAAACCATA	TTTATAAGAA	GAGGTGATAA	AGAGAAATTA	TTTCAGTTAT
144481	GAAGATTTTG	TTAGAAAAC	ATGAGAAAAA	AACATTTTTT	TGTTTTCAAA	AAGTGAAAGA
144541	TTAAGTTACC	AAACAGTTGC	TAAAGAATAC	CAGATGGCTG	AGCGTGGTGA	CTTATGCCTG
144601	TAATCCAGT	ACTTTGGAAG	GCCAAGGCAG	GAGGATCATT	TTAGGCCTGG	AGTTCGAGAC
144661	CAGCCTGGGC	ACTGTAGCAA	GACCCGTCTC	TATTAAGAAA	AAAAAAGAAA	AAAAAAGAAA
144721	ATACAAGACC	TTGCTAACAA	TAGCAAGAT	CAATTAATTC	AAAATTTGAA	AAACTGTAAT
144781	TTATTTAGCT	TTAGAGTACT	CTCGTGATAT	GAGATTGCCA	AATTAATACT	TTGGGTGCAT
144841	TTCTTTTCTC	AAAGGACTTG	CAAATTTACA	AAGAAGTGTT	GAAGAAAAGC	CACACATTGG
144901	CAGGTAATGT	TTGCAAAAGA	CAGATCTGAT	GAAGAACAAT	ATTTTTAGAA	TATACAAAGA
144961	ATACTTAAAA	CTCAACAGTA	AGAAAATAAC	CTGATTTAAA	GCAGGCCAAT	GACCTGAACA
145021	TCTGTTCCAC	AAAGAAGATA	CACAGATGCA	AGTATGCATA	TGAAAAGATG	CTTGACATCA
145081	TGTCATTAGG	GAAC TGCAAA	TTAAAACAAG	TAGATAACAC	TGCATACCTA	GTAGAATGAC
145141	CAAAATTTAG	AACACTGTCA	GCACCAAAGG	TTGCAAAGAT	ATGTAGCAAT	AGTAACTTGT
145201	TCATTACTGG	TGAGAATGCA	AAATGTGCAA	TCACCTTTGA	AGACAGTTTG	GTGGTTTCTT
145261	ACAAAAGTAA	CCATACTTTT	ACCATAAGAT	TCACCAATCA	CACCTCCTTAG	TATTTATCCA
145321	AAGGAATTGA	AAACTTATCT	CCACACAAAA	ACCTGCACAT	AGATGTTTTAT	AGCAGCTTTA
145381	TTCATAATTT	ATCCAAAAC	TGGAACAAG	ATGTCTTTCA	GTAGGTAAGT	GGATAACTGT
145441	GGTACTTCTG	AATAATGGAA	TGTTATTTAG	AGTTAAAAAG	AAATGCATTC	ACTTTGGGAG
145501	GCCGAAGTGG	GTGGATTGCT	TGAGGCCAGG	AGTTTGAGAC	CAGCCTGGTC	AACATGGGAA
145561	AACCCCAATT	AGCCGGGCAT	AGTGGCGTGA	GCCTGTAATC	CCAGCTACTC	GGGAGGCTGA
145621	GATATGAGAA	TCGTTTGAAC	CTGGGAGATG	GAGGTTGCAG	TGAGCCAGTG	CCACTGCACT
145681	TCAGCCTGGG	CAACAGAGCA	AGACTCCTCT	GTCTCAAAAA	AAAAAAGAAA	AAGAAAGAAA
145741	AGAAAAAAGA	AAAAGAAAAA	GAAAAGAAAC	GATCAAGCCA	TGAAAACACA	TGAAGGAAAC

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145801	TTAAATGTAT	GTTACTAAAA	AGCCAACCTG	AAAAGACTGC	ATACTATATG	ACTCCAACCTG
145861	ATGCAGGGCA	AGCAAGCCAA	AAATTAGGGC	TTAGCCCGGG	AAGAATTCAA	GGGTGAAGTG
145921	GTGGTGTTAG	CAACTTTTAC	TGAAGCAGCA	GTGTACAACA	GCAGAACAGG	TACTGCTCCT
145981	TGCTGAGCAG	GGCTAACCCA	TAAGTAATGT	CCCCAGAGTA	GCAGCTCAGG	GGCAGTTCTG
146041	CAGTAATATA	CCTGCTTTTA	GTTAAGTGCA	TGTTAAGGGG	GATTATGCAG	AAATTTCTAG
146101	AAAAAGAGTG	GTAACCTCGG	AGTAGGTACA	GAGGAAAGAA	GTCGATAATG	TCCTGTTGTT
146161	GCCATGGCAA	CGAAAAACTG	ACATGGCGCT	GGTGGGCGTG	TCTTATGGAG	AGGTGCTTTA
146221	ACCTCGTCCC	TGTTTCGGCT	AGTCTTCAAT	CTGGTCCGGA	GTAAAGTCCC	TGCCTCCGGA
146281	GTTCACCTCT	GCTTCCTGCT	TCACAACCTG	ATGACACTCT	AGAAAAGACA	GTAACATATG
146341	ACACAGTCAA	AAGATTAGTT	GATAGAAATT	GGGTGACAGG	AAGTGTGAA	AAGGCAGAAC
146401	ACAGGATTTT	TAGGGCAGTG	AAACTTCTGT	GATACTATAA	TGGTGAATAC	ATGACATTAT
146461	ACATTTGTCA	AAACCCATAG	AAAGCACAAC	ACCAAGAATA	AACCCTAATG	TAAATTACAG
146521	ACTTTCGTTG	ATAATGACGT	GTCAATGTAA	GTTCAATTGT	AATAAATGTA	CTACTGTGGT
146581	GCTGGATGTC	TATGGTGGGG	GGACATTTT	GCTTCAATAG	TTACAGTTGA	AGTAAATGTT
146641	TGTGTTTCCC	ACAATGCATA	TGTAGAAACT	CTCACATTCA	ATGTGATGGT	CTTTGGAGGT
146701	GGGCTCTTTG	GGTGATAGTT	AGGTTTAGTT	GAGATCCTAG	CAGATCGAGT	CTTCATGATG
146761	GGCATGATGG	GACTGGTCCC	TTATAAGAAA	AGACCAGAAA	GCTAGCTCTC	TCTTTGCCAT
146821	GTGAAGACAT	AGCAGGAAGG	TAGCCATCTG	CAAGCTAGGA	AAGGGCCTTC	ACAAAGAATC
146881	AACTCAGACC	TCAGAACAGT	GAGAGATAAA	TTGTCGTTGT	TTAAGTCACT	CAGGCTGTGG
146941	TATTTTGTTT	CAGCAGCCCA	ACCTAAGACT	GTTAATTGGA	TTAGAAATTT	CCTTTTGGGG
147001	ATGGTGTTGT	GCGGGCGGGG	GGCGGGGAGT	ACCTTTGTTA	AGCTTTTATA	TCAATGAGTT
147061	TGTAGGCTTT	TCTTTTTTGG	TCATTGACTA	GGACAGTTTA	AATAGTATGA	GTGTGAAGGA
147121	GATTGTTGGT	CATCTATTCT	ATGTCCTTTC	TCTGTTTTTT	AATATGAGAA	CTCCTGATTT
147181	TCAGCCAACT	ACCCTGGAAA	AAAAGCTAAT	CCTTCTGACT	TCTTAAGTGT	GGCCATGTAC
147241	TAAATTCTGG	CTAATGCAAG	GCAAGCCAAA	GGTTTTATGA	TAGGTTTTAG	GACACTAGAG
147301	TAAAAGAGAG	CTGTTGCACA	CATGCTCTTC	ACCCTACTTT	TGTGTCCTTT	TTTCCATCCT
147361	ACAACTTGGG	TTGTGAGTAT	GATGGCTGGA	ACTTTAGTGG	CTCTCTTGGA	TCCCAGGGGT
147421	AATTGAGGGG	TGGCTGGAAG	GAATCTGTGA	TTTTCTGGAG	TTCCATACA	CAAACAAGAC
147481	CTGGATTTTC	TGGGCTTCCC	AGACTTCCAC	ATCTAGACTT	GCTTTAAATG	GGAGATAAAT
147541	AAACTTGTTT	CAGCCACTGT	CATTTTGGGC	TATTTTATAG	AACTTAATCT	AACTCTCAAG
147601	GGTACATGAA	TTGCTTTTCC	TTAAAAAATA	AATCAGCCAT	AAAATCATCT	TCTTTTTTCT
147661	TTTGTTCCCC	ACATTATTTA	GTTGGAGCTC	TGTAACTTTT	TTTTTTTTTT	TTTTTGAGAC
147721	AAGGTCTTGC	TCTGTCACCT	AGGCTGGAAT	TCAGTGGCAT	GACCATGGCT	CACTGCAGCC
147781	TGCCCCCTCT	AGGCTCAAGC	AATCCTCGTC	TCAGCCTCCT	GAGTAGCTGA	AACTAAGGCA
147841	CATGCCACCA	TGCCCAGCTA	ATTTCTTTTC	TTTTAGAGAT	GGGAGCCTTG	CCCAGGCTAG
147901	TCTCAAACCTC	CTAGCCTCAA	GTGATCCTCC	CATCTCAGCC	TCCCAAAGTG	ACAGGATTAC
147961	AGGTGTGAGC	CACCATGCCT	GGCTGCTCTG	TAAGTGTCTG	AATTTCAATT	TGTATTTATC
148021	AGTCTGTTTA	GATTTTCTTT	CCCTTCTTGG	GTCAGTTAGG	CCATTGGTTT	CTTTTTAAAG
148081	GTTTTCAAAT	TTATTTGCAT	CTAATCTTTC	AAATTACTCT	CAAAATTATT	CCAGTATATA
148141	TTCTTTTGTT	CCTATTTTCT	TCTGTATTCT	TTATTTAAAT	AGCTAATGAT	TTATCTAGCA
148201	GGACTTATAT	TCTTTCCATA	ACTTTCCTGC	ACCCCAATTA	ATCTCCAATT	TTATATTTCT
148261	TCTGGCCTTC	CTTATAGTTT	CCACAGGTTT	ATTTTATTCA	TTTTTTAAAA	CTTTTATTTA
148321	ATTGTTTATT	TTATTATCAT	TCTTCTTAT	TCAGCAATCT	AAGTGCTTAG	GGATATAGAA
148381	TTTCTCTTAA	GCAGCATATG	CTAGGCTTTA	ACAATGTTAG	GGAGGCCTCC	CCTTCTGGG
148441	GAAGACCACA	CTTACATTAA	CACAGGACTG	TGGGATGCCA	AGAGGTAGAG	AAGGCTTAT
148501	GAATATCCAG	ATTACATCTT	CACGATCCTT	GCACAAAGGT	GGGGTTCCTC	GGTTACCCAC
148561	TGGGTCTTAT	TACCCAAGTC	TGGGTGAGCA	TACCGAGACT	ACGGGTATAT	AGAACAAGTG
148621	CAACTGGCGA	TAATCCTTCT	GTTGGGGAGA	AAAATCTTTT	TTTTCTATTCT	ATCTTAGGTT
148681	CTCCATCTGT	GGCCCTATCA	AGTAGACTAA	CAAAAGACAG	ATTGACAAGA	CAGAAACAAA
148741	GCATGTGCAT	TGTACAAACA	CAGGGGAGTA	CTGAGATGAA	TACTCAAAG	AGGATTTAGA
148801	ACTTGGGCTT	ATATAGCATT	TTAAGAAAAG	AATACATTTT	TTAAGTGACA	AGGAAGACGA
148861	AAAGGACTTT	GAGTTTCTAG	TGCAGTAAAT	TGTGGGAAGG	CAACTTTTTT	TTTCCCTTTT
148921	TTTTTTTTTT	TTTTTAAAAA	AAAAGACTTC	TCTGGTGCTA	TGTCCAGGCT	GATAAGAGTC
148981	TAAAGTCTCT	GGTGACTAAC	TTTTGTCTCT	CCCCGAGTAA	GAAGACACCT	TCACAATTTT

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149041	ATATCCTGCT	TTTAGGCAAA	TAGGGAGAGG	GCAGAGGTGT	TTGTTTGTTT	TTAATCTATT
149101	TTTTTTCTCA	ATTGTCTTCA	ACTCAAATA	CTTCTTATGC	CAAAGATGGC	ATATTCTGCT
149161	ACCCTTCACT	TACTACTTAC	AACCCAGCCT	CTATCATCAT	AATTAGAACT	TCTGACCCTG
149221	GGGAACATGG	GCAATAGTTT	GAACCTTTTT	ATATCTCCCT	TAGGCAGAGA	TGGAGGCCCA
149281	GCCATGCCTC	TGACATCTAG	ACACAACGTG	TGCTTCATTT	CTCCTATTCT	CAGAGGTGAT
149341	GTTGTAGGAC	TTCAACAAAT	ATCAGTAAAC	ATTAATTTTT	TTTTTCCTTG	AGGCACAGCA
149401	TGATCTTGGC	TTACTGCAGC	TGCTGCAGGC	TCAAGCAATT	CTCCTGCCTT	GGCCTCACGA
149461	GTAGCTGGGT	TACAGGCCCC	TACCACCATG	CCCGGCTAAT	TTTTGTATTT	TTAGTAGAGA
149521	CAGGGTTTCA	CCATGTTGGC	CAGGCTGGTG	TTGAACTCCT	GACCTCAAGT	GATCCACCTG
149581	CCTCAGCCTC	ACATAGTTCT	GGGATTACAG	GCGTGAGCCA	CCATGCCTGG	CCATCAATTT
149641	TTATGTCAAC	TCTAAATTAT	AACATTTAGC	AATTTTGTGA	CTTTTTATGG	TCATCATTA
149701	TGTTGTTTTAT	GTTTTAGTTG	TAGTCTGTCT	ATTACTCACT	CGGGTATGGT	AATTTGGTCT
149761	TTTTCAAAAT	GAAGTTAAGG	TCTATTTGCT	CTTCTCTGAA	TCATAATAAG	AAC TGCCAAC
149821	AGCCATTTCA	GCAATAACTA	TTTACTGAGA	TTTTAAAAATA	TTCAAGGTA	ATTGGTCTTA
149881	GCAGACTGGA	AAATACCAAA	TTCTTTTCCA	GAAC TGAATC	CCCCATCAAA	GTTCAATTTT
149941	ACTCATAATT	CCCTTTTCAT	TTGAAGCATC	TCATTGTAAG	CCAGTCTTAA	CCCTTCTCTC
150001	ACACTTTGCT	TGGCTGTTTC	TCAGGTAGAA	CTCAGTAAGT	CTGGTAGCCT	CCAGGACTGC
150061	CGCTTAGATT	ATTAAACAAC	ATGT CAGTGG	TTGGAAGAGT	CAATGTTATT	TTGATTTTTT
150121	TGTTTTGTTT	TGTTTTAAAT	GCAGTTGGCG	GATAATTGCA	GCTTTCTTTC	ATTCCCTACA
150181	TGAGTTCAAA	TGGCAGCAAA	CAAAC TAGGA	GAACGCAGAC	CTTCTGACTT	GTGGGTACCC
150241	CTACTCATCA	CCTGAAGACC	CTTGGAATC	AAAGCCCTGA	CCCATTAAAG	ACGGATGGAG
150301	ACAGCAACAT	ACGATCATCA	CTATTATCTT	GCTTTGCCCC	AGTCCAGGTT	AACCATCTGT
150361	GGTATTTTTA	GTTGCTAAGT	CCATATATTC	AACATAAATC	AATTATATAT	CCACTAAAAT
150421	CTCAGCACTA	GTCTAACTAC	TAAGGAAATG	ACAGCGAAGA	AAACAGACCA	AACGTCTGCC
150481	CTTATGGGAT	TTATATTATT	TTCTCTGTGC	TGGTTAAACC	AAGGAGCTTC	TGCTCTTTTC
150541	CTTAGTCACC	TGGGGGAGGC	AGAAACAAAG	GAGAATATTG	ATAAACCTGG	AAATAGGGCC
150601	GGAGAGTATC	AGAGAAGGAA	GCCTTCGGGA	AAGTAAAGAT	GTGGCAGCCA	GTATTCCCGT
150661	TATAAAAGGA	TACAACTCCG	GCCTCATAGT	CCAGAAAAAT	TCCCACAAGC	AGGGGCTGCT
150721	CATGCAGATG	AAGGGAAGTT	GGGGGAGAAG	TAAGTGCTAC	ATAGCCTTTC	TTTTTG CACA
150781	GCCTGAGGGT	CCAGAATCCA	GACTGAGGCT	CTTGCTTCAT	GCCAGTGCCC	CTCTGCACAT
150841	TTTCCATACA	AACTCCTAAA	TCCCATCCGG	TTCTTCGCC	AACATCCACT	TCAAAGTAAC
150901	GTCTTCCTGA	GGTGAAGCCT	TCACAACCCA	AGACACAGGG	GAAGGCAGTA	AATCTCCTGG
150961	AAGATGTGTC	CTGATTCTCC	TGGGTGTATC	CACGAGTCAC	TTGTCTCCGA	TCCTCAGAGA
151021	GAATTAGTTC	GTGATGAGCT	GTATCTGGAT	CCAGAGTCAC	ACTAACTGCA	AAACAAAACA
151081	AAACAAACAA	AAATAATTTT	GTTGCTGTGA	AGAACACAGG	TTATTTTATT	TTATTTTATT
151141	TTGAGATGGA	GTGTTGCTGT	CACCCAGGCT	GGAGTGCACT	GGCACTATCT	CAACTCACTG
151201	CAACCTCCAC	CTCCTGGATT	CAGGCAATTC	TCCTGCCTCA	GCCTCCGGAG	TAAGTGC GAC
151261	TACAGGTGCG	CACCACCACA	AGTGGCTAAT	TTTTTTAAAT	TTCTGTAGA	GATGGGGTTT
151321	CGCCATGTTG	GCCAGGCTGG	TCTCAAATC	CTGACCTGAA	GTGTTCCACC	CACCTCGGCC
151381	TCCCAAAGTG	CTGGATTACA	CAGGTGTGAG	CCACCATGCC	CAGCCACAAG	TTATTTTCAA
151441	TAAACACAGC	CTGTGTTCAA	ACCCAATAT	TGTTTCTTAT	AAACTGGGTG	AGCTTAGGCA
151501	AATCATTTAA	CTTCTGAGC	CTCAGTTTGT	TAAC TATAAA	GTGGAAATTA	CCGTATTTGT
151561	TGCAGAGAAT	GGTGGGTAGG	ATTGAATAAG	CTTATGTTTG	CTTAATGCTT	GGTAAATTC
151621	CTGGTACATG	GTAACCACCT	AATAAGTGGT	AGTTGTTGGG	GTGATCAGGC	CCAACACCAG
151681	GCCGTGGGGG	CTACAAAGTC	CGGCGGGGCT	AAAGGAATGA	GAAAAGACAA	GTTAAGAGTG
151741	CATAAAGTGG	GTCCAGGGTG	CCAGCACTAG	ATTGGAGGCT	GCAAAGGCCC	TAAGCTCTGG
151801	GAGCCACAC	TATTTATTGG	TGATCAAACA	AAGAAGCAGG	TGGTGAGGAC	TGTAGGGTAA
151861	ACAGGTGAGG	GCATGAGGAC	ATGGGGGTAG	AAAGGTAGTG	GTGCATTAAG	CGTAGCTGTG
151921	ACAGTTTAGC	ATTTTCTTTG	ACACATGTAG	AATATACTCT	GCTGCTTGAG	ATAGTAGAGG
151981	ACACGTTTAT	GAGTGAAAAG	CAAGGAACCA	ACAAGTCTGT	GCACTTTCCA	GAGGCTATGA
152041	GGGGTTTTAT	GCCCTGAGCC	CTGGGTTCCA	TCCAAGCCAC	AAGGGGTTTT	ATGCCCTAGG
152101	CTTAGATTTG	TGGTGCGGCA	GGGCAGCCTT	CCACCATTTG	GCACAGAGCT	TGGTGTTCCA
152161	AAGGCCACGA	GGGGTTTTGG	ACCCTGGACC	CCGGACATCT	TCCAAGACTC	TTTTACATTA
152221	TGACAGACAA	GCCAGTCCTG	CTTCAGCTCT	TCTAACAACA	TGTAGTAATA	ATGATATCAT

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152281 CAACATCATC TTCGTCTTAA TTATTCAAGG ATGCCAAGGT ACAGAACTAA CCTGTTAATA
152341 TGGTTACCAT CCTGTCCAAA GTTCTTCTCC CATGCAGGAC TTCCAGGAAT CATGAGACAG
152401 TTGAGCAGAA AGATACCTTT TCCCTTCTCT ACTGAATAAC CACCAACATT GAGAATCAGA
152461 GAGGGAAAAT GACTCAGCTA ATGTCTTAGC TTGTTATTGG AAGACCCAGG TCTCATGACA
152521 CATGCCTAGT CCCATGACTT TTAATTGTAA GCTCTTCTCT TTCCCCTCAG ATAATGTTCC
152581 ATAAGCATTG GTATGAGATA ATAATACACT GAGGACCAAT ATACATGAAA AATATCAGAC
152641 TAGAATCAAA CAAGACAGAA AAAAGATCTG ATAACCTAAA GTGAGATACT GAACAGTATG
152701 CAGTTTTAAA AATAAAAAAT GGTAATAGGA TGTCTAACA AGAGAGTTAA GAAACCACTG
152761 TGCTACTGAG TTAAATGTTG ATCAGTTGGT CTGTGACAAT TAAGGAATTC AAGTATTCAG
152821 AAACACTTCC TGTGCTGGAT GCTCTCTGTT TGTCTTCCA AATAATCCCT CACTTTTCCC
152881 TGTCTTGCTC TGTGCCAGG AAGGCTGACA TGGACAGATT AACCAGGCTT TCCGCCCTCT
152941 GGCTTGGTTC AGCCAATGGG AAGCACCAGA GGAGACCATA GGGCACAAG AAGCAGCCTT
153001 GGGAGTATTC AGTACCCAG TCCCACGCTA TGATTTGGAG GGTCTGCATT CCTCTGCCCTC
153061 TGGGCACACT CTAGTATAGT TACAGCTCCC TACACCTGCC ACTTGAGGCC CAGAGGAGGT
153121 GATGGCTCTC TAACTGTTCC TAGTTCTGGG TGCTTCTGT TCCTTGTGGA TTTCCCAACT
153181 CCTCACCTTT GTAAATACCC TCCTTTTCA AACTCTATTC AGTTAGCTTT TATCAGCCTG
153241 ACTCACAGAA GTTTGGGGTT TCAATTCATA TTACCTGAAT GACCCAGGAA AACCCATGTT
153301 GAGAAATTAA AATGTTTACG GGGTGGTAAT ACCACTTAAG AGAAAAATA TCAATTGGAT
153361 TTTTAAAATT CCACCTATCT ATTGGTGTGA CACATCAACA AAAACATATA GAAAGATTGG
153421 AAGCTAAAAG ATAGATAATA TAGTCATATA CTGTTATAGT ATTATATCAA AAGATATTAA
153481 GTCAGAGCAT TATTAAGAAT GGAAGAAGGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC
153541 AGCACTTTGG GAGGCCAAGG CAGGCGGATC ACTGAAGCC AGGAGTTCAA GACCAGCCTG
153601 CCCAACATGG CAAAACCCTG GCTCTACCAA AAATACAACA ATTAGCTGGG CATTGTGGCA
153661 CATGCCTGTA ATCCCAGCTA CTTGGGAGGC TGAAGCACAA GAATCACTTG AACCGGGGAG
153721 GCAGAGGTTG CAGTGAGCTG AGATTTGCCC ACTACACTAC AGCCTGGGTG ACAGAGAGAG
153781 ATTCTGTCTC AAAAAAAAAA AAAAAGAAAG AATGAAAGGA GTCACCTAAA AAAGATAACA
153841 CAATTTTAAA CATAAATGTA CTACATTATT AGTGAATTCA TGTTTAGAAT TGTGTTAATA
153901 TACAAAGCAA AAATTGTAGA ATTATAGGAG AAATGGACAA ATCTACAATC ATCATGGGAT
153961 GTTTTAACAT TCTTCTTTCC ATAATTGATA GATCAGGCAG ACCAAAAGAA AGAAATAAGG
154021 GAAGATACGG AAGGTCTGAA CAATCTAAGA AGCGCAATCT CATAGTCAAT ACATAAAGCT
154081 CAGCAATTGT TTAATAATAG TAAGCAGAGA ATATGCAGTT TTCTCAGGTA TAGATGGAAC
154141 ATGCACTAAC TGAGTAAATA CTAGGCAGAA AACAGTCTGA ACAAGTTTCA ATAAATCTGT
154201 ATTACACAGA TCATTTTCTC TAGCCTCAAT ATAAGATTAT AAACCAATAA TAAAAAGATG
154261 ACTAAAAGAA TTCTAAATAT TAGGAAATGT AAACACTAA TAAGTCATTA GAAGATGTAT
154321 AGAATGGAAC AATAATAAAA AGTTATTTAT AAAAATATAC AATGAAGCTA AAGCAGAATT
154381 TTAAGGAAAA TTTGTAGGCT TTAATGCTT ATCTTAGAAA AATTAAAAAG CTGAACATTA
154441 ATGAGCCAAG CATCTAATTT AAATTTTAAA AAGAACATAG AAAGCCAAAT ATAATTTTTT
154501 AAAAAGAAAA AATAGATATT AAACAATATA ACAGTGAAGT TAAAGAAAAC AAGAATGCAA
154561 TAAAGAGGAA AAACAAACAA AAAAAAAGGT AGCTTCTTTT AAAAGAAATT TAATAAATA
154621 GACATACCTC CAATGAGATT TATCAAAGTA AGACAGAAGG CACAAATGGA ATGAATACAG
154681 AAACTTTTTA AATATTACAG AACTTTATAA TAAATCTTAT GCTACTAATA AAATTGAAAG
154741 TACTGATAAA ATTATTACTT CCTAGAAAAA ATATTTCTGA GTAAACTCA CTCAAAAAAC
154801 AAATAAAGCA TGGGCAGACC TAACATTAA GAAATGAAAT CACTACTTTA AATTTTACCG
154861 ACAGATAATA AAACGTGCAT CTTATCAAG CAAAATGGA ACTTGTCAGT TTTATAGGAA
154921 ATTTAGAAGT CAAGGCATGA GTAATGCCAA TCTCATACCA AATCCTACAA AGAATAGAAA
154981 ATTATGGCTC CCGCTTATAG ACATAGATAT AGAACTCCTG CACAAAATAA TATAAATAAC
155041 AAACCAAATT TTATATTTGC AACTATACAT ATTATATGTG TATGTATTAT ATATGTTAAC
155101 ATATACATAT ATAATATGTA TAGCATATGT TCTACATATT ATATATGTAT AGTGTATGTA
155161 TTTTACAATA TATAAATGAA AACCCAATCT TTAATATATT CATCTAGATT GTCATATATG
155221 ACATATATAA TACATTACAT CAAAAATGTG TACAATAATC AGGCCAGGCA CAGTGACTCA
155281 TGCCTGTAAT CCCAGCACGT TGGGAGGCTG AGGCGGGTCA ATCACTTGAG TCCAAGAGTT
155341 TGAGACCAGC CTGGTCAATA TGCCCAAATT CCATCTCTAC AAAAAATATG AAAAAATTATC
155401 CAGGCATTGT GGTGCACACC AATAGTCCCA GCTACTCGGG AAGCTGAGGT GAGAGGATCA
155461 CTTGAGCCTG GGAGGTGGAG ATTGCAGTGA GTCGAGATTG CGCCAGTGCA CTCCAGCCTG

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155521	GGTGGCAAAG	GGAGACCCTG	TCTCAAAAAA	AAATTAAAAA	ATTAGCCAGG	TATGGTGGCC
155581	TGTTCCCTGTA	GTCCCAGCAA	CTGGGGAGGC	TGAGGTGAGA	AGATCACTTT	AGCTCAGGTG
155641	GTGGAGCCAT	GATCGCACCA	CTGTACCACT	CGGCTTGGGC	AACAGAGTGA	GAGCCTGTCT
155701	CGAAAAAACA	AATATATACA	CACAGTAATC	AATATATATA	TTATATGTAC	CAATCAATGC
155761	TTCACCTTTA	TATATAATAT	AGATTACATC	TTATTAGATA	TATAGTATTC	CTTCTCCATA
155821	GATAGATAGA	TACAGATATA	GACATAGTAT	CCTCTATCCA	TATTAGAGAG	AGGATACTAT
155881	ATATATCTAT	AGCATATAGA	GATGCTGTCT	CAAAAAAATT	TAAACATCAG	CCAGATGTGG
155941	TGGCCCATGC	CTGTAGTCCC	AGCTACTGGG	GAGGCTGAAA	TGAGAGGATT	GCCATTGATC
156001	CTCTCATTTG	TTGAGCCATA	ATCGCACTAC	TGCACCACTC	AGCCTGGGAG	ACAGAGGGAG
156061	ACCTGAGGTG	GAAGGATATA	GATATAGATA	TATAAATAAA	TATGTATAGA	GAGAATATAA
156121	TATATGTGTG	TATGTGTATA	TATATATATT	ATGAAGACAC	TGGGAGAGAA	TACTATATAT
156181	ATATGTGTGT	GTGTATATAT	ATATTATGAA	GACACTGGTG	GGATGGTTTC	ATTACCAATT
156241	GGACCAAGAG	TCCAGGTATG	GAGCCAACAT	GCAATGTTGT	TGTTGACTGA	GCTGGCAGAG
156301	CACTGGTCAT	AGTTACGGGA	AAAGAAGGTC	TCCAATGAGA	CATACTTAAC	AAAATATATG
156361	AACTTGCCAT	ATACGTGGAG	AGTTCTGGTG	TGTATATAGC	CTTCTCTCAC	CAACCTAGCA
156421	ATTGTCTTCA	TCATCATTAT	AATGCTATCA	GAGCAAAGAT	GACAGCTAAA	TTTTTTTGTG
156481	CCTTCTCTCT	TCTTCTCTCT	CCTTCCCCTC	CCCCACCTCT	TTCTCTTCCT	CCTCCTCCTT
156541	CATCTCTCTT	CTTTTTTTTT	TTGAGATGGA	GTCTTACTCT	GTCGCTCAAG	CTGGAGTGCA
156601	GTGGCACAAT	CTCAGCTCAC	TGCAACCTCT	GCCTTCTGGG	TTCAAGCAAT	TCTGCCTAAG
156661	CCTCCAGAGT	AGCTAGGACT	GCAAGTGCAC	ACCACCACAC	CTGGCTAATT	TTTGTATTTT
156721	TAGTAGAGAT	AGGGTTTCAC	AATGCTGGCC	AGGCTGGTCT	CAAACCTCTG	CCCTCAAGTG
156781	ATCCTCCTGC	CTCGGCCTCC	CAATGTGCTG	GGATTACAGG	CGTAAGCCAC	TGTACCCGGC
156841	CTCCTCCTTT	AATAGACAGG	GTCTAGCTCT	GTTGCCCAGG	CTGGGTACAG	TGGCGTGATC
156901	ATAGCTTACT	GCAGCCTCGA	ACTCCTGGGC	TCAGGAGATC	CTCCTGCCCT	AGTCTCCCCA
156961	GTAGCTGGAA	CTACAGGCAT	AGCACAAGGG	GCTAATAAAA	TTAATTAGGT	GATAAAATTC
157021	ACTGCCCACT	GATGACTAAG	CTCTTTGGAC	ATAAAAGACA	CAGACCTTGA	AGGAAAATGT
157081	GTCTACTTAA	TTTTGAAACC	CTATTTATCA	AAAAACAGGA	TGAAAATGCA	AAATGCCATC
157141	CACATGCCAG	AAGATATCAG	CTATAATAAG	TTCCCATAAA	TCAATAAGGA	AAAGAACCCA
157201	ATAAAAATTA	TTAAACCACA	GTAAATCATG	GGTAAATCAC	AGAGGCCTGA	AGGGCTAATG
157261	GACATACAAA	AAGAATCTCA	ATCTCACTAG	TGAAATCAGA	AAAGCACAAA	TTAAGTACAC
157321	AATTAGGTAC	CATTTTAAAT	CTGTAAGACT	GTCAAATCA	TAAATTATAT	AAGTAAAGAC
157381	TCAGGGAGTT	TTGGAGGAGT	GAGAGCTCTT	ATATTGCTTG	TGGGGTAGAA	TTGGAACAAT
157441	TTCAAGATCT	GTAGTATCTG	GTAAAATTAT	GATATGCATC	CCTCACACCA	GCATGTCACT
157501	CCAAGGTATC	TCCCTGGAGG	GAACATTTAC	GGGACACAAG	GAAGCATGGA	TAAGAAATGT
157561	CACAGTAGTA	TTGTCTGCAA	CAGCAACAAC	AAACAAAAAA	CCCAACTACA	CACAACCTCA
157621	ATGCCCAGTC	CACAAGGCAA	TGGATTAAAT	AAACTTCAGG	CCGGAGATGG	TGGTTCATGC
157681	CTGTAATCCC	AACACTTTAG	AAGGCCGAGG	CGAGAGGACT	GCTTGAGCCC	AGGAGTTCAA
157741	GACCAGCCTG	AACAAAATAA	AGAGATAGTG	TTTCTACAAA	AAATTTTTTA	AAAATTAGCC
157801	AGACGTGGCA	GTGCTTGCCT	GTGGTCCAG	CTACTGGGGA	AGCTGACGTG	GGAGGATTGC
157861	TTAAGCCCAG	GAATTTAAGG	CTGCAGGGAG	CCATGATGGG	GCCATTGCAC	TCCAGCCTGG
157921	GTGACAGAGT	GAGACCCTGT	CTAAAAGAGA	TAAGTAAATA	ACAACCTTTC	ATTTTCTGCC
157981	ACATTGCAAA	ATGGTGAGAG	AGTGGTTTCT	AGACTCTAGA	CTCTTTCTAT	GACTACCTTC
158041	TAGTTATGAG	ATCCTACAAC	ACTCACCTAA	CCTCTCTGTG	TCATATTTCC	TCCCTATATA
158101	AGCAAAAATG	CCCCATATAG	AGAGGACTGT	GATATAAAAC	AAGAACCAAG	AAAAGTAAAG
158161	CTTTTCTAAT	CTGTACACAG	CTAAAGAGTG	CTCAGTATAT	GTGAGTCATT	ATTCTGTTG
158221	CTGGTAGGAG	TGTATGTTAC	AACTTTGAGT	CAAGTAATAT	GGTACCATAT	ATTAAGATTA
158281	ACAACAACCT	CGGCAATCCC	AGTTTGGGGT	ATGTTCCCAA	AAGAAATGAA	AGCACCAGGA
158341	TATAAGGATG	CATGGACTAG	AAAGTTATTG	TAGCAACATT	GTAATAACTA	AGTTCTAAAA
158401	ACAGCCTGAA	GCTCCATCAG	TAGGGATATG	GTTACATATA	TTTATTATAT	TCTTATGGAA
158461	TATTAGACAT	AAAAAGTAAC	GAGTAACATA	GAAGAGACAG	TGTATATATG	TTACGTTTGT
158521	ACAAACTTAG	GGAAAGATAT	AGATCACCTT	ACCTAGAGAA	GTCAGATTGG	AGACGGGTGG
158581	GAAAAACCTT	GAACTTTCTC	CTTATATCCT	TTATATTGTT	TGACTGATTA	AAATGTATTT
158641	GTTGCATCTG	CTTGAAGGCA	ATGTAAAATA	AAATAAACAT	ACATTTAAAA	ATAAAAATAA
158701	AATTTATTCC	TATCACTTTT	GTAATAAAGC	TGGGCACAGT	GACTAACACT	TGTAATCCTA

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158761	GCACTTTGGG	AGGCAGAGAC	AGGCAGATCA	CCTGAGGTCA	GGGGTTTGAG	ACCAGCCTGG
158821	CCAACATTGT	GAAACCCCAT	CTCTACTAAA	AATACAAAA	TCAGCCAGGC	ATAGTGGTGC
158881	GTACCTGTAA	TCCCACGCTA	CCCGGGAGGC	TGAGGCGCTG	GAACCCAGGA	GGCAGAGGCT
158941	GCAGTGAGCT	GAGATTGCGG	CACTGCAAGC	CAGCCTGGGT	AACAGCGAGA	CTCCATCTCA
159001	AAAAAAAATT	TGAAAAAGA	AAAATTTTAA	TAAACAGTGT	TTAAGAGGGG	AGAAATATTT
159061	AGTTAAAAGA	TAAGCCCATT	TAAGAAATAG	TTTCACCTGA	CCCGGAAGGC	GGAGCTTGCA
159121	GTGAGCCGAG	ATCGCACCAC	TGCACTCCAG	CCTGGGCGAC	AGAGCGAGAC	TCTGTCTCAA
159181	AAAAAAAAAA	AAAGAAAGAA	AGAAAGAAAG	AAATAGTTTC	ACTTGAACCA	TATTATGATT
159241	CCTTCTGTAA	AAGATGAGAG	TAGGCAAATT	GACTCAGTGA	AATCCCAGCA	AAACTTACAC
159301	AAAGTCTTGT	TCTTCCTTCC	TGTCATCTGT	ATAGGATGAA	ATACAGAGTG	CTTTTGGGTT
159361	TTGTTGTTGT	TTGTTGTTGT	GTATTTGAGG	GGAACACAGG	TCTATAATTC	CTTTTCTGAA
159421	ATCCCTGGAA	CAAAATGGGC	TTTGCCATTG	AAATTAGTTT	AGAAGTTATA	AAGGCAAAAA
159481	AATGCATATA	CTCTAAAGTT	CAACCCCATC	ATGGCCTAAG	GCAGAGCCCT	GTAATCAAAT
159541	TCATCAATAT	ATCTGCAGCA	AAACATTTAT	TCAAATTAAG	TGGGATAAAT	AAAGACTTTT
159601	AAATAGTCTC	ATCTCAGTGC	CGTTCAGGGT	TGGCCACTGT	GGAAGACAGA	CTCAAGGGTG
159661	GCCTTCTATG	ATTCTGCTCT	CTTGGTGTTC	ACACCCTCGT	AAAATTCCTT	GTCTTTGAGT
159721	GTGAGCAGGG	CTTATGAATT	GCTTCTGACC	AATAGGATAT	GGCAAAGATG	ATGGGATATA
159781	ATTTCTATGA	TTACGTTTCA	TTATGTAAGA	CTCCATCTTG	CTGGCAGATT	TTCTCTAAAG
159841	AGTCTGTCTC	CTGAGCTCTC	TCTGAAGAAA	TAACTGGCCA	TGTTAGAAGC	CCATGTGCAA
159901	AGAGCTGAGG	GGTGGCCTGT	AGAAGCTGTG	GGCAACCTCC	AGCCAACAGC	CAGAAATAAC
159961	CAGGGCCAAA	GTCCCTGCAAC	CATCAGGAAA	GAAATTCCTG	CTGCTACCTC	AGTGAGCTTG
160021	GAAGTGGATT	CTTCCTTAGC	CTAGCCTCCA	GATAAGAACA	CAGCCTGACC	AACACCTTAA
160081	CTGCAGCCTT	ATCAGACCCT	AAGCAGCAGG	CCCAACTAAG	CTGTGCCAG	ATTCTGTAAC
160141	CACAAAAATT	GAGATAACAT	ATCAGTGTTG	TATTAAGGTT	CTAAATTATG	GTAATTTGTT
160201	TGTAATAATA	GATAACTAAT	ATAACCACCA	AATCATTTC	GGTTAGGCCA	GATTTTTGTA
160261	GCCAAATGAA	TCATGATAAA	ACTTTCCATT	TTCAGGGGTT	TTTTTGATTT	TGTACTTACG
160321	GATACAAATT	TGTGAAAGTA	TAGTCAGCAC	TGATTTAAAA	AATCAAGGGA	GCAGGAAACT
160381	CAGTAAATGG	TTCTAACATT	TTGGAATCTG	TAAATTGGTT	GTAACATTTG	TCATCTGTGT
160441	TATCTAAGTC	AAGTTCCTAA	AATATGTGAA	TGATAGGTTA	TCATACTCAC	CTACTTTTCT
160501	TGCATTGCTC	TAAGAGTTGG	CTGAGCTATT	GATAATAAAC	ACTATGATCA	GATCTAATAC
160561	CATGATGTGC	TATTATGATC	ATGTGTCAGT	CACAGGGCTA	AGCACTTTGT	ACATCTTGAT
160621	GCATTTAATT	TTGATGATAA	CTCAATGAAG	TAGGAGCTGT	TAATATTTTC	ATTTTTCAGA
160681	GGGGGAAACC	AAGTCACTTG	GAGTAACATG	GCTAATAAGT	GAAAGAATAA	GAATTTGAAA
160741	GGTTTGCACA	GATAACCAGA	ATGCAATGCT	CATCACATTC	ACTGAGCAGT	GAATCATACT
160801	AACTAGAGAA	AGTATGAAAG	CTCTACTGAA	ATTAACATAA	CAACCTCTCT	GGCTGTGAGC
160861	CTGCCAAGGG	ACAGGTGGTA	AACTTGGTTA	CTGCATAAGG	CCCCTTCTAT	CCACAGTATT
160921	CAGGAATTCT	TTAGTGAACA	TACCTTGATG	ACTCCTTAAC	ATTTTCTTCA	CATCGAAGTA
160981	AAGCTTGGA	ACATTGCACA	TAGTATGAAG	TTCCAAGGAG	ACAGCCTCTG	ATGTTTCCAG
161041	CTTCACAGCC	CAACTCCTAG	AATAAGCAGA	GGCGAGAGAT	TTCTTCAGAG	GTGCATTCCA
161101	TTCAATTTCTA	TATACGCACA	CCCCTCCCCT	CCTGCATTCA	AACAGGACTT	ACCTGCTCAA
161161	AGTGTCAATC	ACATTCTATA	AAGAAACAAA	AAGAAAAGGT	GAGCATGGGA	ACATCGGTAT
161221	TTGATGGGGC	TTGTGATGCA	GGGCTATTCT	TCTTTGCTTT	ACCCGAAGAA	GTAAGAGAG
161281	TTACCCTAGT	CTTAGTCTTA	GATATTGATG	GATACTCAA	CAAAGTAATT	CCCACCAGTC
161341	TTAGGTATTG	ATGGATACCC	AGATGGAATA	ATTCCTACCA	GCTTCTGGGA	GATTGAGCAT
161401	GGCAGGATGT	TTATCAACAT	TTGCATCTAT	TCTCATCCTT	GCTGAAGTCT	GAGGGCCAGG
161461	AGCTTTGTCC	ATGCTCCCTC	TGTAAGGACT	AGCTTTTGGT	GATCGGATTT	CCTTCACAGT
161521	GAGCCCAGAT	TAGAGAACAC	TTATCATAAA	GGTCCTTAGT	GGTGAATCTG	TGCACAGCCC
161581	TGAGACTGGG	CCACTGCCAC	TAAGATGGTG	GTAGCAGGTA	TCACACAGTG	GTAAGGCAAT
161641	CATGCTATAC	ACTCAGCCTT	ACAGTATAGT	CACCAATCCT	GTTAGTTAGA	ACCAGAATTA
161701	ATGGCTCCAG	ATGTTTATCT	TCCTACAGAT	AAAGCTGTAG	ATTGTACCAT	AACAGCTCTG
161761	GAGCAAGGGT	TCTACAAGCA	AATCAGGGAA	AAGGTTATCA	CTCATTTTGG	CTGCCCCACT
161821	TCATCACCCA	TCAGTCACCT	AGTGGAGTAT	TTCAGGAGAG	AGTCAACAAC	CAGGGTTCTC
161881	TGCACATGGG	CCAAGGAGGC	AAACAGTGGT	AAATGTTATC	CCGTGGTTTC	ATTTGGCCAA
161941	GCTGTGTTCC	CTCAGAAGTT	TATTTTTCTA	ATTGACATAA	AGGTACCCTA	TAAATTAGTG

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162001	AAGGCCAGCC	TGATGGCACT	GATGTACATC	TAAAAGAAAC	ATTACTTTAT	CTTCCCATGC
162061	TTCCTTACCA	TTCTCCTTTA	ATAGCACTAT	AACATACCTT	TTTTCCCTAC	TCCAAGTACA
162121	CAGCCTCACC	TGCAGCAATT	TCTGGGCTGA	GCCCTGACAT	TTTTCTCCA	GTTCCAGGAT
162181	GTGGCTCTTG	AGTTCAITGC	TCTTCAGCCC	CAGACCAGCC	TCATAGTCCC	TCAGTCTACT
162241	CAGAGTCTGT	TGTTCTTCTT	TCTCCAGCCT	CCAGAGATAA	GACTTCTCTT	CCTCATGTAG
162301	GAAACACTGG	AGATTCTTAA	AGTCAGACCG	GATTTTTTGT	CTCTGAATCT	GTACCTTCTC
162361	CTGGAGTCAA	GAAAGTATGG	TCAAAAGGTG	GAAGTAAACC	AAATGTCCAT	CTATGGATGA
162421	ATGGATAAAC	AAGAATGAAA	GTCTGACACA	CGCTACTACA	TGACAAGCCT	TGAAGACATT
162481	CAAGCAAAAT	AAGCCAGAAA	CAAAAGGGCA	AATATTGTAA	GACTTTGCTT	ATACAAGGCA
162541	TCTGGAGTAG	TTAAGTTCAT	AGAGACAGAA	AGTAAAATAG	TGGTTACAAG	GTGTTGGCAA
162601	GACCAGAAAA	TGGACAGTTA	TTGTTTAATG	GGTAGTGAGT	TTCAGTTTAG	AAGATGAAAG
162661	ATGAAACTGA	GTTGCAGTTT	TGAGATGGGA	ATGGTGATGG	TGCAACAACA	ATGTAACAAT
162721	GTAAAGCAC	TTAATTCTAC	TGAACATATAT	ACTTAAAAGT	GGTTAAATGC	TTAAGTGTTA
162781	TATATATTTT	CACACAAACA	CACACACACA	CACAATCAGC	CACGAGGACA	TTATTTTCTC
162841	ATGAGTCACT	GAAGCTGGAA	GAATGTCCCC	AGTTTCCTGC	TGCAGAGTCA	TGTGTGGGAG
162901	GCAGGCACTC	AGATGTGGAA	GAGGTTGCCT	CAGATTCCTT	ATAGTCACCC	AATTAATTTT
162961	CTTGTTCTTC	AGCCAAGACA	CAGGAGAAAG	CTGGGTTAGG	AGTGCTAGAT	AATTTAATTG
163021	TGAAACTAGG	GCCAAGTTCA	AACACTTTAT	CAGTTACAAG	GATAAAAAGA	GGTTTTTACT
163081	TATGATTTAA	GAAGTTAGAT	TTCTGAGTTG	GAGCGATTTT	CTTGAAGTAA	AAGCTTATAA
163141	TGAACATCAC	CCAGACTGGA	TTTTAAGACA	ACCAGGCTGG	TAAGAGGGTC	CATAATTCTT
163201	GGCAGGGGGA	GCTTTGAGTG	TGACAGGCAT	TTATTATGGT	TAAGTGAGAA	ATACTGTTCT
163261	ACTACCCTAG	GGTCATCTTA	AGCATTCCCTA	TGTGTAAGAC	TGACAGAAAT	CAAGTGAAAC
163321	TCTCATCTGA	GGAGATGTAA	AGTTGCAATT	TCCATTAGTG	CTGTCTAAAT	TAATGCAGTG
163381	GGAGTGTGTA	TTCAGGGCAA	TTTGAATCTA	TGTTCTTGGA	TTGCAGTCTT	CAAACCTGGC
163441	CCAAATAAAC	TCTCTACTTA	TCTTAAAAAA	ATAAAAATTA	AAAAATAAAA	ATAAATTCAT
163501	ACAGTGTTTT	GATGACTATG	ATATAGAAGA	AGGGTCTTTG	ACTTAGGATG	AGGTGGAATT
163561	TTTGTGTAGG	AGACAGGTGC	AGCTTTAACT	CTTGTATAGA	CGGGTTTTCA	TATATGTTAG
163621	TTACAATCAA	GGTCTTCCCC	ATTGCCCAAG	ATCCTAGAAA	TGGGGGAAGT	AAGAGTGTAC
163681	TCAGGAGCTC	AAGAGCAACA	TCCACAAACA	AAGATCAGGG	TAGAGGTTAG	AGAGGACTCC
163741	TGAAAGAGAG	AAAATTGGTA	ATCAGCTTGT	GGGATTTTAC	TGCAAGCTAG	TGAATTATAT
163801	AAATATAAAG	ATTGGTGCAA	AAGTAATTGT	GGTTTTTGCC	TTTACTTTAA	TGGCAAAGAC
163861	CGCAATTACT	TTTGACAAAA	CCTAAATATT	TCCATAAAAG	AATGTGGCTC	TGATAATGTG
163921	GAGGTTAGTC	AGCCACGGAA	ATAATCTGAA	AGTTTGTAGT	TGCAAGTGTG	TAGGTTGTTG
163981	CATTACTTGT	GATGTACTTA	TAAATCAAGT	ATAGGCCGGG	TGCAGTGGCT	CACGCCTGTA
164041	ATCCCAGCAC	TTTGGGAGGC	TGAGGTGGGT	GAATCACGAG	GTCAGGAGAT	CAAGACCATC
164101	CTGGCCAACA	TGGTGAAACC	CCGTCTCTAC	TAAAATACAA	AAAATTAGCC	AGGCATGGTA
164161	GCACATGCCT	GTAATCCCAG	CTACTCAAGA	GGCTGAGGCA	GGGGAATTGC	TTGAACCCGG
164221	GAGGTGGACA	TTGCAGTGAG	CTGAGATCGC	ACCACTACAC	TCCAGCAAGA	CTCCATCTCA
164281	AAAAATAGTA	ATAATTTAAA	AATAAATAAA	TAAATAAAGT	ATATTTCTTT	CATCAGCTTC
164341	ATGAGCTAGA	GTAGTATGAA	TTTCAATCTG	GAGTGATCCT	GTTTTCTAAG	TGTTACAAAA
164401	GCTTGGTTTC	TGTACCTGTA	AAGTTGAGAG	CCAGATGCTC	CAGTGTGGTA	AAAGTGCCAG
164461	GGTAATGAGT	TGAGGCCTGC	AAACCAGGTT	TATTTTGACG	TATTTAAAGT	TTGAGACCCA
164521	CTCGATGCTT	TTTCTAGGTA	AATAGTCATA	CTAATTCCTG	TTCTTCTGAC	TGAAGTATCA
164581	GGAATCCCAG	CCAACACAG	TTTAAAGATG	GAAAGATTGG	TGCTAAATAC	TCATGGATGT
164641	AAACCTGGAA	CCAGGGGCAT	AAGTACAAAT	AATGGTTTCT	TCCTTGGGTT	TCATTTTTTC
164701	AATCTGGTTT	AGTGAGAATA	AATCCTCATT	GTGCTTTTCC	TCAATCATCC	CCTATGCCTA
164761	AGCTCTAGAA	TGGAAAATAG	CTTGAGATCA	ATGAAGTCAG	ATTCTTACTT	TCCATTTAGT
164821	TATTCGCATT	GCTGTGGACA	GCTTCTGCTC	CGTACATCTG	TCTTCAAGTT	GCTTCAGTTT
164881	TGTCACAGCT	TTCTGGAGCT	TTTCTGAAG	GAAAAATTTG	ATAAGTGAAG	CCTATTCAAT
164941	TTGACTCTTC	ATTAGGGACC	TAGGGGGAAT	CCCAATCTTC	TAAGATATAT	TTGAATAATA
165001	GTGAATATTT	ATAGAGTCCT	CATTGTTTTT	TGCTAGAGAG	CATGCTAAAG	GCTATATGTG
165061	CAGGAACATA	CTGATCCCCT	TGGCAACCCT	GAATAGTTGG	TAGGATTTTA	AACTTCATTT
165121	CTGTGCTGTA	GAAAATGAGA	CTAAGAAAGG	GGTAAAATAA	CTTGCCCAAA	GGGCTATGAC
165181	TGCCAGGTGG	TGGAGCAACA	ATTGCAATCT	CATCTGCTGA	CCCAGAGCCT	GAGCTATGTC

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165241 CACCACTAGA GTCCTGCCAG GAAAAAGTTG GATATAGAAC AAGGTAATCA TCATCTAAAA
165301 GATTTTGTAA AACACATGC TGAACCAAGC AAAACCAATA CCAGTGTGTTG GCACACATGA
165361 AATTTTGTGT CTTATGAGTC AGGAAAAATC AGGATGCCAG CTGGTTATTA GAAACAGTTC
165421 ATGGAAGAGG GGAATTCTGG TATCTTTTGA ACAATGGTAT CATGAATCCA ATTTAAAATG
165481 ATTTAGTATT CATGTCAAGC TTTTAGCTTA TTCTTCAAAA CAGTTTCTCA TATTTCTATT
165541 GAAAGTGATT TGAAGCTGAC CCAAATTGCT AATTGTAGTC AATGCTGAAA GAATTGTCTC
165601 CTGTCCTCTG TAAACCCAAC AAGTATACTC ATTCATTCTC GAGTGTCTC AGGAAAAGGT
165661 TCTATGTAAC TGTTTTAGCA AAAGATGACA TTGTCCTTAC TATATGCCAA GTGCTATTCT
165721 ATGCATTCTA TATTTAATG TCCTCAAAGC TTATAACCAC CTCCTGTGTA TGTGTTTTAG
165781 GGAGGGAGGA CACTGCTATT ATCCCCATT ACAGATGGAG AAACCAAGGT GTGAAGACAT
165841 TAAGTAACGT GCCCAAATT GCCCATCTAG TAAGTGACAA AACTCAATTT CAACATAAGC
165901 TGGTTCCTTT TCTTACTACT TGGTGGAAAA GTAATTCAA TGGGAATATG ATCATCGCAG
165961 TTATTAGCTG CTCCATGGAG TTTAAGGAAG AGCTGCCATG AGCTGAGTGG TGGTCATGAT
166021 TGACATGTCC TTAGAAGGAC TTAGAGCCTT CATAACAAGC CACCTCTGCC TCATGGAGGA
166081 CAGAATAAGG AGCCTGACAC TGGAGACAAC ATTTTCTCTA AATTTAGGCA GGACAGAGAA
166141 GGAAAAAGGA CATCAGGACT ATGCCCATTC CTCCATGCTG CCAACAGCAA AGTCCCACCT
166201 TCCTTAATAT GCTTTCTGGC AAGAAATCTG GATGGTACAC AAAACCTCTC CCTCTGCTTC
166261 ACCTTCCACA ACCAAGCATT TCCAAATCTT TGACTCTTCT TCCTGAATCG TGCTTAAAAT
166321 CTGCCCTCTC CTCCCTTTCT TATACGGATA GTTTGAATTT TACTCCTTGA TATTCCTTTT
166381 ATCATAGACA TGCCACAGTA GCTGGGCACA GTGGTTCATG CCTCTAATCC CAGCATTTTG
166441 GGAGGCTGAG ATGGGAGGGA GACCAGGGT TTGAGGCCAG TATAAGCAAG AAAGGCAGAC
166501 CATGCTCTTA CAAAAAATAA AAAAATATC CAGGTATGGT GGGGCATCCC TGTAGTCTTA
166561 GCTACTTGGG AGGCTGAGGT GGGAGGATTG CTTGAGCCCC AGAAGGTTGA GGCTGCAGTG
166621 AGCCGAGATT GCACCATTGT ACTCCAACCT GGGATACAGA GCAAGACCCT ACCTCAGGAA
166681 AAAAAAAAAA AAAAAAAAAA AAAAGTAGAG GTACCAGAGT GATATTTTCA ATGTCACTGA
166741 CCCTTCATT CCAAATGAA AATCCCCCAA TAGGTGTTCA ATTTTACGT GTCCTTCAGG
166801 AGTTACTTCT AAGATGAACC ACTCTCTACC CTAAATGTCC CTCCCCACCA CCAAAACCAG
166861 GGACCTCCAG GCAGACATTT TTGATGGTTT GTTTTCTTTA CTAGACTGTA GATACCTAAA
166921 AGGTGATGGG TCTTTCTTCC CTGTTTTCAG GCCCTACTGC ATGGCTTTAC ATATTGTGGT
166981 TTTTCAAATG ATATTCATGG TGTGAAACAA GAAAAAATGC GGGTGTGTTG TTTGAGAACA
167041 ACCTGTTCTA AAGCAAAAAG AAATTCATCA TAACACAAAT GGATAGAGAT AAGAGTCCAA
167101 CCATCCCATT GAAGGTCAGG ATGGACAGTC TAGATAATTG AGCAAGAAAT CATACTAAAC
167161 TATTTTTCAG AAGAATGACA TGATGAAAGC TGTATTTCCA AGTCATAATG TTAGGTTTCA
167221 AGTTAAATCA TCTCAGCTCC TGGGGAGCAG GATAAGACTT GGTACTTACC PAAGCTCCCG
167281 GGCCACACA CTCACCTTGT AGCCCTGGCA TACGTCTTCA ACAAGAGCTG TGGTGTGCCC
167341 TTTGTGCTGT GGTGCCCGCT CACAGCGCCA GCAGATGAGC TGCCCTCGT CTTGCGAGAA
167401 CAGGTGGAAC TGCTCTCCGT GTTCTCACA TGACATTTCT TGATCCGTCT CTTTGAGGGC
167461 TTCAATGAGG CTTCCCAGCT GCTTGTGGG TCGGAGGCTA TCCATATGAA ATGGAGCCCG
167521 AACTGGGGA CAGCAGAATG TCTCCTGCCT CAGTTGCTTT TGGCTTGGGT TTTTAAAGAA
167581 GTCTGTTATA CACAAGTGGC AGTAGCTGTG TCCACAGTTG ATGCTTACTG GGTTCGTCAT
167641 CAGGCTCAGG CAGATGGAGC AGGTGGCTTC CTCCATCATC TTCTTGGTGC TGGTGGTTGA
167701 GGCCATAGCT TTTATTGAAA AGCTCCAATA TTGGCTCTAG AGATGGAGAT GAAGCAGCCA
167761 GAATTTTCCA CCGTGATGAA AATACACCTC ACCTGCACCT CTATGTGATG AGCTGGCTGC
167821 AACTGACTTC CATAGGTCTT GAAGGTTTTT CTCCAACCC CTATTATCTC ATTTTGTATT
167881 GAAGAAAAGA GGACCTAAAA GGAAGAAGTT GAGGCTGAGG TTGTTTGGGC CAGTTTGGAG
167941 AACTGCAACC CAAGTGCAGA GTTTCAGATT GCCCTCATTA GCAAGCAGTT ACAAGTGGTT
168001 GTTTAGAGGA AAAAAAGCAG TTTTAAAGCA GTTTTAAAGT TGTTTGCCAA GAATTTACAT
168061 TAAATAGCA TAAGCTTTTG ACTGGCTATA CATGTGTTCT TGTATTACAA ATCTCGGGAA
168121 TATGTAGGTA ATAGATGAGG CAGCCAGTCA GGAACAAAAT GCTTTTAAAC ATGGGCTCTT
168181 AACTGAAGAC CTATACTCCT GCCTCACTTG TCCTGATAAA TTTTGATAC CTCACATAGC
168241 TCAGACTGCT CTAAATTATT TCATTATTTT TCTTTTCTCA GTCTTCTAAC TTTTCTTTT
168301 TTTTAAATG AGACGGAGTC TCACTCTGTC ACCCAGGCTG GAGTGCAGTG ACGCTATCTC
168361 GGCTCACTGC ACCTCCGCCT CCCGGGTTCA AGCGATTCTC CTGCCTCAGC CTCCCGAGTA
168421 GTAGCTGGGT CTACAGGTGT GCACCACTAC GCCCAGCTAA TTTTGTATT TTTAGTAGAG

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168481	ATGGGGTTTC	ACCATGTTGG	TGGGCTCGAT	CTCTTGACCT	TGTGATCCAC	CCGCCTCAGC
168541	CTCCCAAAGT	GCCAGGATTA	CAGGCATGAG	CCACCGTGCC	CAGCCTCTTT	TTCTTTTCTT
168601	ATAAGACAAG	TTCTCGCTCT	CTTGCCCAGG	CTGTAGTGGA	GGGCAGTGGC	ATGACCACAG
168661	CTCACTGCAG	CCTCGACCTC	CTGGGTTTAA	GCAATCCTCC	TGCCTCACCC	TGGCAGAGTG
168721	GCTGGGACTA	CAGGTATGTG	CCACCATGTC	CAGCTAAAGT	CTTCTCTCCA	GAAAGAAGAA
168781	ATGCATTGGA	ATTTAGAGGA	TACACAAACA	TCTAGCTGTA	TAGCTAATAC	AGTAGCCACT
168841	ATCATGAGTA	GGAATTTAAA	TTTAACCTTA	TAAAAATTAA	AATGAAAAAA	TTCAGTTTTT
168901	CTGTTCCAGT	TGCCACATTT	TGATTGCTTA	ATAGTTGCAT	GTGACTAGTG	GCTACATAAC
168961	AGCCTCAATA	TACAACATTC	TGTTATCACA	GAAAGTTACC	TTGGACCAAG	TGCTGGGAGA
169021	AGCAATGCAG	GCTTCCTCAC	AAAAGCTGTA	AAAGAGAGAA	CTCAGGGAGT	GTGAAACTCT
169081	TTCTTATTCT	AGTTAACTTC	AAGAATAATT	GTTACCAGGC	CAGCACGGTG	GCTCACGCCT
169141	GTAATCTAG	CACTTTGGA	AGCCGAGGCG	GGCAGATCAC	CTGAGGTCAG	GAGTTTGAGA
169201	CCAGCCTGAC	CAACATGGCA	AAACCTCATC	TCTACTAAAA	ATACAAAAAG	TTAGCTAGAT
169261	GTGGTGGTGC	ACACCTGTAA	TCCCAGCTGC	TCAGGAGGCT	GAGGAAGGAG	ATGACTTTGA
169321	GCTCCGGAGG	GGGAGGTTGC	AGTGAGCCCA	GATTACACCA	CTGCACTCCA	GCCTGGGTGA
169381	AAGAGCGAGA	ATCTGTCTTA	AAAAAATAAT	AAAGAATAAT	TGGTACCAGA	ATTACTCTTT
169441	GTAATTAGTA	GTAACACTTA	TGCAATTGGG	TGATCTGTGA	CAGATTCCAT	TGAAGGAGTA
169501	TGGGGAGCTT	CACCCCAATA	TATGACTCCC	TGGTATAATG	AGTATTTTGA	ATTAAAGGCC
169561	CTTAGAGATC	AGCAGATGCT	GGAAGAGACT	TTTCCCTAT	CTACATAAAG	ACCAGTCACA
169621	CTAGACAAGA	AGAACAATTG	TTTTTCCTTC	CAACCCCTAT	TATCTCATTT	TGTACTGAAG
169681	AAAAGAGGAC	TAAGAATGTA	ACCAGACCTA	ATCAGACACT	TTCACAAAAT	AATGTCGTGC
169741	TCTCAGGCTC	ATTCAATTTT	CAAAGAGAAC	CATTTACAAG	TTAAACTCTG	TTCTCCATT
169801	CATTCATCCT	CCCAAATATT	CATTTATTCT	CCCTAGTAAT	CATTTACTGC	CCCTCAAAGA
169861	ATTACCTATA	TTCTCCTGAT	ATCACCCTTC	CCCTCTGAAA	TAAATATGTA	TACATGTATA
169921	AACGTTATAC	ATACATATTT	ATACAGTATA	CATACATATT	TATACATACA	TACATATGCA
169981	TACATATTTA	TATTTATGTA	TTTATACATA	AGTATTTATA	AATAAGGCTA	TATAAGTATC
170041	TACCCCATTT	GGCAGAGGGG	GTAATCACTC	TGTGATTCTA	GCCCATGTAC	TTGTTAATAA
170101	ATTTGTATGC	CTTTTCTCCA	ATTAGCTGCG	CTTTGTGAG	TCGATTTTTT	AGTGAACCTC
170161	AGAAGGCAAA	GGGGAAGTGT	TCCCTTGGCT	CCTACACCAT	CATGACAATA	AAATTTGACT
170221	CCACCTCGAC	CCCCCCCCATC	CCCCACAAAG	AACAACAACC	AACACTGGTT	AATAAGGTCTG
170281	GTTGTTTTTT	GTTTGTGTTT	TTGTTGTTGT	TGTTTTTGCT	TTCAGGAGCA	GAGGTATAAT
170341	AGGCAAAAGA	AAGAGAAAGG	AGAATAGTGA	ATACCTCTTC	TGCAGAGAGG	GGTGCCTAAG
170401	TGGGACTTCC	CTGGCTAATA	ACGTCTTGCT	AGAGACCCAA	CCAGGAGGAT	AATGGAAGCA
170461	ATCAAGGCAA	CCAGAACAAC	CAGAAGAACC	GGTTTATCCT	TTTTGTGCCC	TCTCCCTAAA
170521	CTGAGGGGAAT	AAGAATTGGA	AAGAAGGCTG	CAGAGCAGAG	GGTTTGCTCC	TGAGGAGCAG
170581	TTATTTCTAT	GGGATCAGAG	CTCCTGCAGA	ACTGGGGAGT	TTACTTTTAC	TATCTCTTCT
170641	CCAGGACAGG	ACCTATCTCA	AGAGACATGT	TCAGAGTGAT	TGCAACATAA	AGAGTTTGCA
170701	GACCCAAGGA	GGTAGGGAAG	GCAGAAAGAA	GATGGGGGAG	GCCAGGGATA	GGCAACAGAG
170761	GAGTGACCAG	GAGCGAAAAA	GCCTGCCTCT	TCTGAGAACC	TAGCTGGGCT	CTCCCTGTAC
170821	CCCCGATCCC	TCCCCCCCCG	CCGCCCCCAC	ACCCCTACTC	CTGGGAGCTC	CTCTAGGACA
170881	GGGGCAGAGT	CAGGAGGAAG	TTTGAAGAGT	GCCTAGAATA	AAAAACAGTA	ATTTAACTAC
170941	AATTACCGGG	TAGGCTGTTT	TCCTCTCACA	ATTTGATCAG	TCTCTTGAAG	CCACACAGAA
171001	TTTCTTCTGA	AGACGTGTAT	TCCTTGCCAG	GCTATTTCTT	CCAGTGATAC	ACCAGGCCCC
171061	TCTCTGCTGG	GGTCACTGCT	CTTCTGGGGA	GATGGGGCTC	CCCTCCTTCC	AAGGCTCCAG
171121	GGTTCCTGTC	CTGGGCCCCA	CTCATCTAAG	TTCTGAATCT	TCTGAGATTT	GGTGTAAGT
171181	CTGGTGAAAG	AAAGAGCAGG	AAAGAGGTGA	GAGCTGTAAA	ACAAAGAAAG	TCTTGACCAT
171241	TTTCAGAGTT	GGAGGGGCCC	TGCTGTCACG	AAATATATTC	CCCAACCCAC	TTGCCATCAG
171301	TACACACTCA	CATATCCACT	GAGAAAACCT	TAGCCTGGAC	CTTTTCCGTA	ACCTTCACTG
171361	CTCAGACACT	TACATATTCG	CTGCTAGTCC	CCTCTGTTGC	TGCCACTTCC	TGGGTCAAGG
171421	AGTTAACTCA	GACCGGATTA	AACTGAGAAG	TGAAACTACT	GTGGGAGGCG	GGGCTCATAA
171481	GATTTAGGAG	AAAAGTAGTG	ACGTTGTTCA	TATCATTTGC	ACTCCGCCTC	TCCGGTAAAG
171541	GAGGGGGAAA	CGTAGGAAGA	AAATATCCTT	CTTTTACAGC	AATAAAAAAG	AGGAACCAAT
171601	TAATAACCCT	GTAAACTATC	ATGTGACCCC	AACACAGAGT	ATCTAAAAAC	AGGAAGCCTG
171661	CAGAGGTTCA	GTTACACAGAC	TCTGATTTGA	GATCTTTCTA	CTTTTGCCAC	CAACTCCCTT

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171721 GGGAGTCCTT AAGCCTTCCT AGCTGATGTT ACTTCTTTTG CTATTATGG GTTGCTTGTG
171781 GTTCTATAAC TGCTCTGAAG GGTGTGGTGG AAAAAGGGGT GGTAACAGCA GTAGGACTCA
171841 TTGGCATCAC AAAATTCATC TGAGTCAGCT TTCTATTCTT CTCTGTCCCG TTCTGTGTCT
171901 TGTTTTTCTC CTTGCTGTCC TTCTGCAGGA CTCAGATCTT CTTCAATAGC GAGGGTCAGC
171961 CAGGATAGAA AATGGGAGTC ACTAGTGGCC CAGCAGTGAG TGCCCCCAGC TTAGAGCTGT
172021 GTGGGATCCC TGGGACCATC ACTCTGCTTT GTGCTTTGTG GAGAAAAGGC TGTGGGGTCC
172081 AGGGTCAAGT CCTTAATGAC TTAGCTCCAG CTTCTCCACT TCAAAATGAA AGGAAAAGTA
172141 CTATCACCAC CCGTTAGAAT TATTATTTCA TGGGGAAAAA AGATGGATTA CTATCTCACA
172201 ATAAGAGCTT GTCACATTTA TAAGTCTCAG GTGTAAGAGG CATTTATGAT AACACATAA
172261 TAAATGCTGG CTTAAGTAGA TGCAGTGGTC CAAGGGAACC AGTAAGGGGA GCTCAGGACA
172321 CAGGTGGGAG GAGAAATTAA ACTTGAATTC TGGGAGCCAC TGGCCTGTCT GGGCCCCTGG
172381 CCTGCCTGCT GACCCTGATA GCCAATGGAA CATGGAGTTT GGCCAGCTG CAATCCCTCT
172441 GGTCCAACATA CTCAAATAA AGGCAAGATT GGGAAACACG TTCCTTTCTT CCTATACCAA
172501 GCAGAAGACT CTTCAGCACT GCACCCTCCT GGGTGCTCAC AGAGCCTTCT GTTGTTTTGC
172561 CACCTACGAT TCATCATGCC CTGGCATGAT GGTTCAGAC CCCATGCATA GCATGGGACA
172621 TTCTACTCCT GAGGCAACCA GCACACAGAG AGAGGAGAAA GAATGAGCCC CTGAATCCTT
172681 GGTCCCACGA TGAGTCCTTG CAGATATCTA CAACTTTCAT TGTGTGGAT GTGACTCTGT
172741 ACCCAGGCAT GGCTCATTC AGATCTGTCC TATTGTCAGA GGTGTTCAA CCAGAATGAC
172801 TCCATTTTGA ATGGGGGCTA GGTAAAATAA GGCTGAGACC TACTGGGCTG CATTCCCAGG
172861 AAGTTAGGCA TTGTAAGTCA CAGGATGAAA TAGGCAGTTG GCACAAGACA CAGGTCAATA
172921 AGATCTTGCT GATAAACAG GTTGCAAGTAA AGAAGCTGAC CAAAACCCAC CAAAATCAAG
172981 ATGGCAACAA GAGTGGCCTC TAGTCATTCT CATTGCTCAT TATACACGAA TTATAATGTG
173041 TTAGCAAGTT AGAAGGCATT CCCACCAGCT CCATAGTGGT TTATAAATAC CATGGCGATG
173101 TCAGGAAGCT ACCCTATATA GTCTAAAAAG GGGAGGAACG CTTGGTTCTG GGAATTGCCC
173161 ACATCTTTCC CAGAAAACAT ATGAATAATC CACTCCTTGT TTAGTACATA ATCAAGAAAT
173221 AACTGTAAGT ATCTGTATTA GTCCATTTTC AACTGCTGA TCCAGACATA CCTGAGACTG
173281 AGTAATTTAT ACCAGGAAA AATGTTTCAT GCTCTTACAG TCCCACGTGT CTGGGGAGAC
173341 CTCACAACCA CAGCAGAAGG CAAGGAGGAG CAAGTCAGGT CTTACATGGA TGGCAGCAGG
173411 CAAAGAGCTT GTGCAGGGAA ATTCCTTTCT ATAAAACCAT CAGGTCTCAT GAAACTTATT
173461 GACTATCATG AGAACAGCAG TATAAATTAC TCAGGGAAAAG ACCTGCCCCC ATGATTCAAT
173521 TACCTCCCAC CAGGTCCCCT CACAATATG TGGGAATTTA AGATGAGAGT TAGGTGGGGA
173581 CACAGCCAAA CCATATCAGT ATCCTTAGTC CAGAAGCTGA TGCTCTGCCT GTAGAGTAGC
173641 CGTTCTTTTA TTCTTTTACT TTCTTGCTTT CACTTTTACTG TGTAGACTTG CCCCAAATTC
173701 TTTCTCACAC GAGATCTAAG AACCTTCTCT TAGGGTCTGG GTTGGGACCC CCTTCTGGT
173761 AACACTATCA AAGGATCAGG AAAAGGAAGC TAGTGAATGC TAAAAAGGAA ACAAACTACC
173821 ATTACCAATA ATAACAGCAA GACAAAAGCA AAACGGATTG TGACAGCTGT CCCATCTCAC
173881 ACCTGTTTCC CATTGCAGGA AGGAGGGGCT GGTTTCATGCA CAGAGTGGCC AATATTAGAA
173941 GCAGAGATGG GGTGCAGATG AGACTTCAGG AATATGTTGA CAAAGGCAGG CCTAGGGAGA
174001 AATCAACCTG AACTATCCCC AAGGAGGAAT GCATTATCTC TAATATGTAA AGTTAGGCTT
174061 GATCCTGTGA TTATGGGATA TAGGAGTCCA AAGACTCACA ATGGGAAGTA GGTCACTAGA
174121 GTCTCCTTCA GAAGCTCTGT ACTGTGTGTT CCCACTGTGG GCAAGAGTCA GCACTCAGCT
174181 ATTCCTAGAA TGCCTTTCCT CAACTCCTTC CCTCCCAAAC ATTTTCAAAT CTATTTTGT
174241 ACCACTTGTT AGCAAGTGTA CCCCTCTCTC CTCCCAAAC ATTTTCAAAT CTATTTTGT
174301 CCCATGGCAC TTATCACTGA ATATTTTACT AATTTATTTT GTTTAGTGTT TGCTTCCCTC
174361 ATGAGAATGC AAAGGGATGG ATTTTITTTCA ATATTGTTCA CTGATGAATC CCAGTAACTA
174421 GAATATTTCT AAGCATAGTG ATGTGCATTA AATCAAAGAG TAACTTTCTG AATTGCACTA
174481 AACACATC ACAAGAGGTG TGTGCACATA TGTGCATGAT GCACGTAGTG TGGTGTGGGT
174541 GTTGTGTGGG GTATGTGGTA CTGTGTGTGC TGTGTGTGGT ATGTGATACA TAGTTTGTGT
174601 TAGTGTGATG CATGTGATGT GGTATGTGTG TCGTGTCCA TACATATTAG GGGTGGCGGG
174661 GATGTTAATA TGTCAAATGG TACTAGAAAG TATCAGAACT CATGGTGCTT ACTGGTTTCC
174721 CAGAGAGCTG CTTCTCTCCC ACCTGTAGGA TATACTGATG GTTTGGACAG AGAAGAAATA
174781 AAAAGAAGGC TGTGACCTAC TGGGCTGAGG AAATAAAAAC GAAAGTAAAA GAAGAGCTGG
174841 GAAAAGAGAG TGGAGGGGCC AAGGGAAATT TCCCCTTTGG CTTCTGGGGA AACTTTGCTG
174901 AAAAATCAAC TCACAAATTT ATTAACATGT ACACAGGGAG AACCATAGAA TGATTATCCA

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174961	CTTCCCAAGA	GGGCTTAAAA	GCTTATATAT	TATCCTGGCA	AAACAGATTA	TGGGAGGGGA
175021	AGAAGAGAAA	CTCTGTTGAT	GGGATTACTG	TTGCGGATTT	TTGCTCCTTC	GCTCAGCTAG
175081	GTCCGGGTTT	TTGTCTCACA	GCCAGGAAGA	ATTAGGCATG	CAGCCATCAA	AGAATGAGTG
175141	GAGTAGAATT	TATTAAGTGA	AAGGAAAGCT	CTCAGCAAAG	ACAAGGGTCC	TGAAAGCAGA
175201	TTTCTGGTTT	GCTCTTCACA	GTTGAATACT	AGGGCTTAAG	ACTCAAATTC	CTGACAACCTC
175261	CACCTGTCC	TACCAGTGCA	TGCAGGCCTT	TAGACTGAGC	TACTCCATAT	TGATTAATTT
175321	CCTGAACTGT	GCATGTGTTA	AGGAAAGGAA	TCATCCACTG	CAGGCATGTT	TAGGCAAGCC
175381	CCCTGTGCAA	GTTCCCTTAT	CTGCACAAAA	CATCCGGTGT	AAGCACTTGT	GGGGCAGGTC
175441	AGAGGTTCTC	TGGGTACCAT	TCCCTTACTG	TCTGCCTAAA	GCAAGCTGGC	CAACTCCTTT
175501	CATTACTAGG	GAGAGTAAGT	AGATCAGGGA	ACAGAGATTA	ACTTGAACAT	TATCTTGTGA
175561	AAGTCCGTTT	GGGCATGGTT	ACATTCTTGG	TCTTACAGGA	AGGGTAAATA	AAAATAAATTG
175621	CTCTTTTTTG	TGGGTCTGGA	TCTTAGGTAG	ATAAAGAAAC	TTTAATTCCA	CGATGTGTTT
175681	TGGTAGGGAT	AGTTGGTGGC	AGGGATGTCA	GAGAGACTTT	GAGGCTTCTT	CAGTTCAATA
175741	TGACCAAGGG	CCATATATTA	GGGTATCAAT	TTCTGAGCCC	CAACAAGAGC	TTAGGAGAGA
175801	TGTGATAGCA	TCACAGTGTG	AAAGCAATTT	TTTGTGTTGT	TTTAGAGACA	GGCTCTTGCA
175861	CTGTCAACCCT	GGCTGAAGTA	CAATGGTACG	ATCACAGCTC	ACTGTAATCT	TGAAGTGGGT
175921	TCAAATGATC	CTCCCATCTA	AGCATTTCOA	AGTGTGTTGG	TTACAGGCAT	GAGCCACGGT
175981	ACCCAGCCTG	AAACTGCACC	CACTTTCTGA	TAACTTTTTC	AAATGACTAA	AGGGGAGAGA
176041	GTAAGCACTA	CTCAGAGGTA	GGAAGAAAGG	ACACAGGATT	ATAGGATTAA	AACAACAACC
176101	ACCAAAAAAA	ACCAGACCGG	TGTGGTGGCT	CACACCTGTA	ATCACAGCAC	TTGGGGAGGC
176161	TGAGGTGGGG	GGAGTCACTG	GAGGCCAGGA	GTTGAGAGAC	AGCCTGGCCA	ACATAGCAAG
176221	ATGCTGTCTC	TATTAAAAAA	AAAAAATACC	TGCCTTGAGC	TAATCAGAAT	CATGGACCCT
176281	GACAAAGGAT	GTCCCAAAGT	AAGTCTTAGC	ATTTTTTTTT	TTTTTTTGAG	ACAGTCTCGC
176341	TGTGTTGCCC	AGGCTGAAGT	TCAGTGGCGT	GATCTCGGCT	CACTGCAACA	GCTGCCTCCC
176401	AGGCTCAAGC	AATTCTCCCT	GCCTTCAGCC	TCCCAAGTAG	CTGGGATTAC	AGATGCCAC
176461	CACCACGCCCT	GGCTAATTTT	TGTTTTTTTT	AATAGAGATG	GGGTTTTGCC	ATGTTAACCA
176521	GGCAGGTCTT	GAACTCCTGA	CCTCAAGTGA	TCTGCCACC	TTGGCCCTC	CATGTGCTG
176581	GGATTACAGG	CGTGAGTCAC	TGCACCCGGC	AAAGTCTTAG	CATTCTTTAC	AAACAGTTTG
176641	TACCCGTATC	TCTAAAAGGG	AGTAGTGAAT	TTCACCCCAA	AATGTGGCTT	CCTGATATAA
176701	TGAGTATTTT	GAATGAAAAA	CTCTTAGAGA	TCAACAGACA	CTAAAGAGAC	TTTTCCCTAG
176761	GTACATAAAA	ATAGGATGGC	CCCACCAGCG	AGAACAATTG	TTCTTTTCTC	CCTCTCTGTT
176821	ATCTCATTGT	GCATTATAGG	AAAGACCAAG	AATGTAACCA	CACCTGAACA	GACCTTTTAA
176881	TAAGATAATC	AGTCTCTAAG	CATCATTTAA	ATTCCAAGGA	GAACATTTTA	CAAATTTATC
176941	TGTTCTTTGA	TCCAATTAGT	CTCTCCTGGT	AGTTACATAT	TGCCCCCTCA	CAGAATTCCT
177001	CTTCTTCTGT	TTCCCATAAC	CTATTTTGCA	AGGATCAAGC	CCCTGTTATT	TCTTCAACTT
177061	CAAGGTGGCA	TATAAGCTTC	TAAATTCCAC	TGGGATATTG	GTAATATGTG	CATGAGGAGA
177121	ACCACAGAGT	AATTAAATTG	TAAAGCCTTT	TATCTTATGA	ATCTGCCTTT	TTTTGTGTTT
177181	ATTTTTCAGC	AAAACCTTCA	AGGGCAAAGG	TATAAAACAA	AAATAAAATT	CTAAAGCCCC
177241	CCAACCATCT	GAATAGACTT	TCTCTTCAGT	CAGGCTTCTT	AAAATGTAAC	CTGAAAGACT
177301	GGCTCAGGCC	ATTAAGGGAA	GTGGGGGTTG	AACATGCCTC	ATTATTCTCT	TCTGGCATTAA
177361	ACATCAACAC	AGCTTTTAAG	TCTGATAAGA	AACATTTTAC	AACCTATTCT	CTCTGAAGCC
177421	TGCTAGCTAA	AAACTTCATC	CCATAGTACA	ACTTTGGTCT	TCACAACCTG	TTATCACAAC
177481	CTAGTGCTCC	TTTCTATTAA	TCCCAAATCT	TTATACAAAC	TCAACCAATT	GTCTCACCT
177541	CCACCCCACT	CCTCCGCTGC	TTCCAGTTGT	CCCGCTCTC	TGGACCAAAC	CAGTGTACAT
177601	TTCTTAAACG	TATTTGATTG	ATGTCCCATG	CCTCCCTAAA	ATGTATAAAG	CCAAGGTGCA
177661	TCCCAACCAC	CTTGAGCGCT	TGTTCTCAGG	ACCTCCTGAG	GGCTGTGTCA	TGGGCCATGG
177721	TCACTCAAAT	TTGGCTCAGA	ATAAATCTCT	TCAAATGTTT	TACAGAGTTT	GGCTCTTGTC
177781	ATGACACAGA	TGACTGCTTC	ACTGAAGCCT	GCTCTGGAAG	TGAGTGGGGG	TTTTGCAAGG
177841	ATAATTTTCC	CCGGATAGCC	CCAGAAGCAG	CTAGTAATAA	TACACTTAAA	GGTAGCTAAA
177901	ATGCATTGAA	CACTTGTTTT	GTGCCAGACC	TATGTCAACA	TTTGCTTTGT	GCCAGGCTTA
177961	TGCCAGTACT	CCTGATTTGT	TAATACATTC	TAAATAAAAA	TTCTGGAGTT	TCAAATATAA
178021	TAACTGAAAA	ACAGAAAATA	AATAAAAATA	TATAATAACT	GAAATAAAAA	TTTACTAAGG
178081	CTGGGGATGG	TGGCTCACTC	ACACCTGTAA	TCCTGTTACC	GGAAAGGGGT	CCGTCCAGAT
178141	CCAGACCCCA	AGAGAGGGTT	CTTGGATCTC	ACACAAGAAA	GAATTCGGGC	GAGTCTGTAA

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178201	AGTGAAAGCA	AGTTTATTAA	GAAAGTAGAG	GAATAAAAGA	ACGGCTACTC	CATAGGCAGA
178261	GCAGCTCTGA	GGGCTGCTGG	TCGCTCATTT	TTATGGTTAT	TTCTTGATTA	TGTGCTAAAC
178321	AAGGGGTGGA	TAATTCATGC	CTCCATTTTT	TAGACCATAT	AAAGTAACTT	CCTGACGTTG
178381	CCATGGCATT	CGTAAACTGT	CGTGGCGCTG	GTATGAGCAT	AGCAGTGAGG	ACGACCAGAG
178441	GTCACCTCTCA	TCGCCATCTT	GGATTGTTGG	GGGAGCAGTG	AGGATGACCA	GAGGTCACTC
178501	TCATCGCCAT	CTTGGATTTG	GTGGGGTTTA	GCCAGCTTCT	TTACTTTTTT	CTTTTTTTTT
178561	TTTGCCGAGG	CTGGAGTGCA	GTGGCAGCAT	CTCAGCTCAC	TGAAACCTCC	AATTTCTGAG
178621	TTCAAGCGAT	TCTCGTGCCT	CAGCCTCCCA	AGTAGCTGGG	ATTACAGGCA	TGTGCCACCA
178681	CACCCAGCTA	ATTTTTTATA	TTTTTAATAG	AGACCGGGTT	TCGCCATGTT	GCCTACGCTG
178741	ATCTCCAAC	CCTGCGCTCA	AGCCATCCAG	CCACCTTAGC	CTCCCAAAGT	GCTGGGCTTA
178801	TAGGTGTGAG	CCACCCACC	TGGCCTAGCC	GGCTTCTTTA	CTGCAACCTG	TTTTATCAGC
178861	AAGGTCTTTA	TGACCTGTAT	TTTGTGCCCA	CTGCCTGCCT	CATCCTGTGG	CTTACAATGC
178921	CTAACTTACA	GGGAATGCAG	CCGAGCAGGA	CTCAGCCTTA	TTTCACCCAG	CTCCTATTCA
178981	AGATGGAGTC	TTTCTTGTTT	AAATACCTCT	GACAAGCCCA	ACACTTTGGG	AGGATGACAC
179041	AGGAGGATTG	CTTTAGCCTA	GGAGCTCAAG	ACCAGCCTGG	GCAACACAGT	GAGACCCCAT
179101	CTCTAAAAA	AAAAATACAA	AAAAATTAGC	CAGGCATGAT	GGTGTGTGCC	TGTATCCCT
179161	GCTACTCAGG	AGGCTGAAGT	GGGAAGATGG	CTTCAGCCCA	GGAATTCAG	GCTGCATTGT
179221	CAGAGGCATT	TGAACCAGAA	TGACTCTATC	TTGAATAGGC	GCTGGATAAA	ATAAGGCTGA
179281	CACCTGCTAG	GCTGCATTTC	CAGTATGTTA	GGCATTCTTA	GTCACAGGAT	GAGATAGGAA
179341	GTCAGCACAA	GGTACACATC	ACAAAGACCT	TGCTGATAAA	ATAGGTTGTG	GTAAAGAAGT
179401	TGGCCAAAAC	CCATCAAAAC	CAACATGGCC	ACCAAAGGGA	CCTCTGGTTG	TCTTCACTGC
179461	TCATTATATG	TTAATTATAA	TGTATTAAAC	TGCTAAAAGA	CACCTCTACC	AGCATCATGA
179521	CAGCTTACAA	ATACTGCGGC	AATATCTGGA	CTTTACCTTA	TATGGTCTAA	AAGGTGGAGG
179581	AACCCCTCAAT	TTTGGGAATT	GTCCACCCCT	TTTTTGAAT	GCTCATGAAT	AATCCACCCC
179641	TTGTTTAGCA	CATAATCCAG	AAATAACTAT	AAGTATGCTT	ATTTGAGCAG	ACCACGCTGC
179701	TGTTCTGCCT	ACAGAGTAGC	CATTCTTTTA	TTTCCTTACT	TTCTTAATAA	ACCTGCTTTC
179761	ACTTTACTGT	ATGGACTTGC	CCTAAATTCT	TTCTTGTTGT	AGATCCAAGA	ACCTCTCTT
179821	GGGGTCTGGA	TCAAGACCCC	TTTCTGGTAA	CATCTTTCTG	GTGACCACGA	AGGGACAATA
179881	TCTGAGGAGC	TCTGAAGCCA	AAGGAAACAG	ACTACAGCAC	CAACTGGCTG	ACTTTGGGTA
179941	AGTGGTGGAG	TCCCCGGGTA	AAGGATAGGA	TGGGGTTAGA	GGTGCAACTT	AGGGGAGATA
180001	GGGTCTCTCC	TAAGACAGAG	AGGGTTTCAG	TCCGCTCTTA	ATAAAGGGCA	AGAATGCTTG
180061	ACCGAACTTG	GGTTTGAGAC	CCAACCTAGG	AAGGCTACAG	TCCTTAAGAT	TTAAGGGGTT
180121	AGAGGCCCTT	CTCAGTAAAG	TCTCTCTTGG	TTAAAAACGG	ATTTAGCAAT	AGGGGATGTT
180181	AACTGCTATT	CTGTTTGTAT	TAATCTTCCC	TGTGCTCTTT	GCTGACAGCT	ATGGGTGACA
180241	GGATTAGGCA	TGTACAGGAT	CACGGGACAT	TGGGAACCTT	TCTTCTCTCC	AAAAGGGGAA
180301	GCTTGACAGC	TGATAGGACT	GTTGGAAAAG	ATCCCTTTGC	TATGACAAGC	AGCCGCTGTA
180361	ACTTTTGATT	CAGTGTGCT	GCAATGGGTG	GGTCTTTCTC	TGGCCTCTGT	GAACTCTCA
180421	CCTTCCCCAT	CTCACCACAG	GCAATGCTTT	TCTCCCTTTC	TCTCTTTTCT	CTTTTCTGTC
180481	TTTTCTGTTA	CTTGAGACAA	CCATCTTGCC	CAGAGACCAT	ATGTTGAAAC	TCCTGGTCAG
180541	AAGTTTGATT	AAAGATGAAA	GGGCCTATCT	GGGGGCAAGT	TTGAGCCTTC	CCAGTTAGAT
180601	ATTGGGTGCT	AAGTGGAGTG	GCCAATGTCT	ATGTTTGTG	ACATGTATAT	TGCTCTGGCT
180661	GAAATGGAAA	ACGTTAATTT	GGTTACTTTA	TGTGGCCATT	GGGCAGCATC	TTACAAAAGT
180721	GAGAGACATT	TATTTGCCTG	TGGTTCCATG	AAACAGAAAA	AAGTTGGTTT	TCTTTTGTGT
180781	CGTAGCTTGG	ACCCAAGGGC	TTTGCAGTGA	GCAAGGTTGC	TAGTGCTGCT	CAGTGAAAGA
180841	GAACCCAGAA	ACCTGGCATG	CCAGCAAAAG	GGTAAAGATT	TCTTACCAGT	CAGGCTTCTG
180901	GCCTCTCTCT	CTTAGTGAAA	ACTGAATGAA	TGGTAAAAAT	CACCTGTTAT	CACCTCTGTA
180961	AAGTTTTGAT	TAATGGGAAC	AAGGATTTGT	GGGGCTAGTC	TTAAGCTGTA	ATGAATCTGG
181021	TATACTTTGT	GATATCAATT	TGTCTTTCTG	TATTACTCTG	TCATAAAGAG	GAATATGGTA
181081	GGATAGAACA	TGGGCTCAGG	ACTCCATAAG	CCTGCTGTTT	AAGCCAGCCC	AGTAAACTGG
181141	TCCGTTGCAA	AGTTTATTAC	AGGTCCCTGG	AAAAAAAAAA	AAATAAAAAC	TGGATGAAGT
181201	TTCTTCTCTA	TCTTGTTTTA	TGTCCTTTGG	AGCTTCACCT	TGTAACCACG	TGGCGGTACT
181261	TTCTCTTGGT	CTCTGCCATC	CAGGGAACAG	GAATTTTGGG	GTTTATGTAA	TAGTTAACTC
181321	TAAAAATTAT	CTCAAGCCAT	TGCAAGCTCA	AAATTGGCTG	CTCTGGACCC	CTTCTGGGAA
181381	GGGCAATGGA	AACTAACCAG	TGTTGTAGCT	CAGCAGCTAA	GGATTTGTCA	TTTTATAATG

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181441	GCGGCCAAGG	TTCAATCCTG	GCTTAGGGAA	TGAGTACTTT	CTGATTGATA	TCTGTGTGAC
181501	CTTTACCATT	TGTTGATTCT	GTTCTCTTCC	CCTCCACACA	CTGTCTTGAG	TTTTCTCTCTC
181561	TCTGAGAACC	TGGGAGATTA	TCTTTGGTAA	AGTTCAAAAG	CCAGAAATAA	TGGCCGTGTG
181621	GGATGGCTAA	AGTTGAGTAA	TAAGAACTT	AAAAGGACTC	CTTTTTTTTT	TGCTTTAGAG
181681	TGCTATGGTT	TATGGTTAAA	AGCTTAATTA	AAAGTGGATA	TTCAATCTCT	AAAAGCCTGG
181741	GACTCCTTGG	GAAAAGCAGA	GGAGGCACCA	CAGACCCCAT	TTTGGGAAAA	CCTCTGTTTT
181801	CCTCATGAAA	CCCCAGGAAC	TGGAAGTGGA	TAGATCCTTC	GCAAAATCTA	AGGCTCTGTT
181861	TGGCTTTGCA	TTATGTTATC	TGATGTTTTT	GACTTTTGGG	GGTATCAGAA	ATTACTTTGC
181921	ATTATGAGGG	AGATCTGGTG	TGTAATAACC	AGGTAGGAAA	TATACTTCTG	GGGATAGCTA
181981	AAGGCAAATA	TAGGTGAATA	CTTGGCTATT	TGCACTTTTG	GATCACAAGA	AGCATTCTCT
182041	TGACTACCTA	GAAGGTATGG	AAATGTCTCC	ATCCCCACCG	AGAGATAAGA	TTCCCAGGGG
182101	AGATGGCTGA	TCCCCAAAA	GAGGGCTGAT	TCCCTCTTTT	GGGATCCAGG	ATCTGGTATA
182161	AAAATGGGAC	CCTGGCCAGG	CACAGTGGCT	CACGCCTGTA	ATCTCAACAC	TTTGGGAAGC
182221	CTCAGAGTTA	TGAATGTCTC	ACCATACTGA	CACTTTGTGA	CTGAGCTCCT	CTCTACCCTG
182281	GACACAAGAG	ACCCTAATAA	TTAGACAGGA	ATATCATTGC	CCCTATTTAG	TCTGAAGAAG
182341	TTATAGAAGA	CGGATCTTTA	TCCCCTGCA	ATCCTTAGGA	TTAAGGGTTC	CCTGGTAAAA
182401	GGGAGTGGGA	AAATATGTCA	GAGGCATTTG	AATCAGAGTG	ACTCCATCTT	GAATAGGGGC
182461	TGGGTAAAAAT	AAGGCTGAGG	CCTGCTGGGT	TAGGTTAGGC	ATTCTAACCA	GGAGTTTAGT
182521	CACAGGATGA	GATAGAAGGT	TGCACAAGGT	ACCCGTCACA	AAGACCTTGC	TGATAAAATA
182581	GGTAACGGTA	AAGAAGCCAG	CTAAAGCCCA	CCAAAACCAA	CATGGCCACA	AAAGTGACCT
182641	CTTGTCATCC	TCACTGCTCA	TATACACTAA	TTATACTGCA	TTAGCATGCT	ACAAGACACT
182701	CCCACCAGTG	CCACGACAGT	TTACAAATAC	CATGACAACA	TCTGGACGTT	ACCTTATATG
182761	GTCTAAACAG	GGGAAGAACC	CTTAGTTCTG	GGAATTGTCC	ACCTCTTTCC	TGAAAAATTC
182821	TTGAATAATC	CATTAGTTTA	GCACATAATC	CAGAAATAAC	TATACGTCTG	CTTATTTGAG
182881	CAGTCCATAC	TGCTGCTCTG	CCTATGGAGT	AGCCATTCTT	TTCTTTTATT	TTTATTTTTT
182941	AGATAAAGAC	TCGCTCTGTC	ACTCAGGCTG	GAGTCTGGAG	TGCAGTGACG	TGTTTTGGCT
183001	CACTGCAACC	TTCACTCCCC	GGGTTCAAGC	AATTCTCCTG	CCTCAGCCTC	CCAAGTAGCT
183061	GGGACCACAG	GTGGGTGCCA	CCATGCCTGG	CTAATTTTTG	TATTATTAGT	AGAGATGGGG
183121	TTTCGCCATG	TTGGCCAGGC	TGGTCTCGAA	CTCCTGGCCT	CAAGCGATCC	ACTTGCCTTG
183181	GCCTCCCAAA	GTGCTAGGAT	TACAGGCATT	ACCCACTATG	CATGACCCAT	TCTTTTATTT
183241	CTTAACTTTT	TTTTGTTTTT	TTGAGACAGA	GTCTCACTCT	GTCAACCCAG	CTAGAGCGTG
183301	GAGTGCAGTG	GTGCGATCTT	GGTTCACATG	AACCTCTGCC	TCCTGGGTTT	AAGCGATTCT
183361	TCTGCCTCAG	TCTCCTGAGG	AGCTGGGACT	ACAGACATGT	GCCACTACAC	CCAGCTAATT
183421	TTGTATTTTT	AGTAGAGACA	GTGTCTTGCC	ATGTTTGTCA	GGCTTGCTCT	GAACTCCTAA
183481	CCTCAAGTGG	TCTGCCTGCC	TCAGCCTCCC	AAAGTGCTGT	GATTACAGGC	ATAAATCACT
183541	GCGCTCGGCC	CTTCTTTACT	TTCTTAATAA	ACTTGTTTTT	ACTTTACTGT	ATGGACTAGC
183601	CCCAAATTCC	TTCTTGTGTG	AGATCCAATA	ACCCTTTTGT	GTGTGAAAGA	ATGTATTGCT
183661	GCTGTTTCAGG	CTGGAGCAAG	CTGGAGCTCA	TGCTGCTGCT	CAGACTGGAG	CATGCGTGAT
183721	CTGTGATCCC	AGTAAGAGGA	TCATGGTCAC	TCCAGCCTGA	ACGACAGCAT	GATATCTCAT
183781	CTGTAAGAAA	AAAAAATTAC	TAGAGGGCTT	TAACAGCAAA	TTTGAGCAGC	AAAAAGAAGT
183841	AATCAGTGAA	CTCAAAGATA	GGTCAATTGA	AATGATCTAC	TCTGAAAAAC	AGAAAGAAGA
183901	CAGAATGAAG	AAAAAGAAAT	AGAGCCTTAG	AGACAGGGGA	TACCATCAAG	CATACTAATA
183961	TATGCATAAT	GGGACTCCTA	GAAGGAGAAA	AGTGAGAGGA	CAGGGAGAGA	GAATGTTTGG
184021	AGAAATAATT	TCTCAAAGCT	TCCCATGTTT	GGCAAAAAAG	CATTAACCTG	CATACATATT
184081	TTAGGAGCTC	AATGAATTCC	AAGTAGGATA	CACTCAAAGA	GATCCATACC	TAGACACATC
184141	ATAATCAGAT	TATCAAAGA	TGAAGAAGAT	GAATCTTGAG	AGCAGAAAGA	AAGGAACAAT
184201	TCATCACATA	CAAATAGTAC	TCAAAAGATG	TCTGGAGTAG	GTATACTAAT	ATCAGACAAA
184261	ATAAACTTTA	AGATAAGCAT	TGTTATAATA	AATAAAGAAA	GGTATTTTGT	AATGATAAAA
184321	GTGTCAATTG	ATCAAGAAAA	CATAACATTA	TAAACATACA	TGCACCTAAT	AACAGAGCCC
184381	TAATATTTCAT	GAACAAAAAC	TGACAGAATT	GAAGGGAGAA	ATAGAAAAAT	CGACAATAAT
184441	AGTTGGAGAC	ATCAATACCT	CACCTAGTTAG	ACAAGATCAA	CAAAAAAATA	GAAAGACTTAA
184501	CACCTGAAAA	CACCTAACCT	GACCCTAACA	TAAATCTATA	GGTCACTACA	CCCCAAAACA
184561	GCAGAATAAA	CATCCTTCTG	AAGCTCACAT	GAAACATTTT	TCAGGATAGA	CTGTATATTA
184621	CTTCATGAAA	TAAGTCTCAA	TAAATGTAAA	AGGACTATAA	TAATAGAGTA	TATATTCTCT

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184681	GACCAAAGTG	GAATGAAGAT	AGAAATCAAT	AACTAGGCTG	GGCGTGATGG	CTCACGCCTG
184741	TAATCCCAGC	ACTTTGGGAG	GCCAAGGCGG	ACAGATCACG	AGGTCAGGAG	TTTGAGACCA
184801	GCCTGACCAA	CATGGTGAAA	CCCTGTCTCT	ACTAACAAAA	TACAAAAATT	AGCCAGGCCT
184861	GGTGGCATCT	GCCTGTAGTC	CCAGCTACTC	GGGACACTGA	GGCAGGAGAA	TCACTTGAAC
184921	CCAGGAGGCA	GAGATTGCAG	TGAGCTGAGA	TCGCGCCACT	GCATTCCAGC	CTGGGAGACA
184981	GAGCGAGACT	CCGTCTCAAA	ATTAATAAAAA	AAAAAGAAAC	TAGAAAAATA	AGAACAAATC
185041	AAACCCAAAG	CAAGCAAGAG	GAAAATGAAA	AATTTCAAAG	CAGCCAAGAA	CAAAAGGCAC
185101	ATTATGTACA	GAAGAACAAG	TGTATAGATC	ACATATTTCT	CATAGACACA	ATATAAGCAA
185161	AAAGACAGTG	GAGCAAAATT	TTTTAGATTA	ATGAAAGACC	TACAATTCTG	TACCAAGCAA
185221	AAAAACTCCC	CCCAAATGAG	GGTGAAATAA	GACAAATTTAA	TACAGAGAAA	AGAGGAAGGA
185281	ATTTATCTAG	TCATATGTGA	GAGTTTATG	ATACATTTTG	TACTGTATAT	GTGGATGTTT
185341	TCTATTTTCT	TTAAAAATC	AACCGTGCAA	TTAAATGGTA	GATTGTCTTG	CTTCTTTTTG
185401	ATTGACACAG	TCATTAACTA	AAATATTGTA	GTATTTTTTT	ATCTCCCTGC	CTAAAGGCAA
185461	TAAACATCTA	ATCAGCAGAC	TAGAACAATA	AAAAATATTT	TTTAAAGTCT	CTTTAGGCAG
185521	AATGATAAAA	GTCCCTTAGG	CATATTGAAA	TTCTTATTTA	TACAAAGGAA	TAAACAGTAC
185581	TAGAAATTGT	AACTATGTGA	GTAAACAGAT	AATATTTTTT	CTCCATAAAA	TGTGGTTGAC
185641	TATTTTCAACA	AAAATAGTTA	ACAATGTAAT	GTGTGATTTA	TAGCATTTAA	AAGTAAACAA
185701	GGCCGGGCAC	AAAGGTTTCG	GCCTGTAATC	CCAGCACTTT	TGGAGGCCGA	GGCGTGCAGA
185761	TCACTTGAGG	ACAGGAGTTC	AAGACCAGCC	TGGCTAACAT	GGCAAAACCC	CATCTCTACT
185821	AAAAATACAA	AAATTAACCA	GGCGTGGTGG	TGCACGCCTG	TAATCCAGC	TACTCTGGAG
185881	GCTGAGGCAC	AAGAATCACT	TGAATCCAGG	AGGTGGAAGT	TGCAGTGAGG	CAAAATTATA
185941	CCACTGTGCT	CCAGCCTAGG	CAACAGAGCT	AGACTCTGTC	ACACACACAC	ACACACACAA
186001	AAGAAAAGTG	TATGACAACA	ACAGTGCAAA	AGAAGTGGAA	ATGAAAATAA	TGTTATTTTA
186061	TATAAGTGGT	ATACTTTTAG	ATGAACTACG	ATAAATTAAT	GATGTATACT	ATAAACTCTA
186121	AGGCAACCAC	TGAAATAATG	AAACGAAGAA	TTATGGCTAA	CAAGCCACAA	AAAGAAATAA
186181	AATAGAATGA	GAAAAAATAT	TTAAGTTGTT	CAACAGATGG	GAAAAAAAAG	AGGAAAAAGA
186241	GAACAAAGAA	CAGATGGGAC	AAATGGGAAA	GTAATAGCAA	GATGATAGAC	TTAACTCTAC
186301	CCATATAGAT	TATCACACTT	AAGGTAAATG	ATCTAAATAC	TCTAATACAA	AAGCAGAGGT
186361	TGTCAGATTG	AATTAATAAA	ACAGACAACA	ACAAAAAAA	GCAAAAAAAG	AGCCACAACA
186421	TGCTGCCTAC	AAAAAATTCA	CTTTAATATA	AAGACACAAA	TAGTCTAGAA	CACCATCACT
186481	TTTAACCTTA	TTTACTCAAA	CCTCCTGATC	CCTATTTATT	TATTTATTTA	TTTATTTATT
186541	TATTTATTTA	TTTATTTATT	TTTGAGACAG	AGTCTGACTC	TGTTGCCCAG	GCTGGAGTGC
186601	AGTGGCACCA	TCTAGGCTCA	CTGCAGCCTC	TACCTCTCGG	GTTCAAGCGA	TTCTCCTGCC
186661	TCAGGCCTCC	CAAGTAGCTG	GGACTATAGG	CACATGCCAC	CATGCCCAGC	TAATTATTAT
186721	ATTTTATAGT	GAGACGGGGT	TTTGCCATGT	TGGCCAGGTT	GGTCTCAAAC	GCCTGACCTC
186781	AGCCTCCCAA	AGTGCTGGGA	TTACAGGCGT	GAGCCACAGC	ACCCAGCTCC	TCTTCATTTA
186841	TTCTTGCTAC	GCTTCCTCCA	ATCCATTTTG	TGCATTTGAT	GATTTTGCCA	GTAACCTCTT
186901	TATTTTCTG	GTAAAATTAC	TTATGGGTCA	CTGAGGACTG	GGATGTTCTT	TCTCTAGAG
186961	GGGGTTTG	TCTGCTTTTG	CCAGGAAGCT	GGGGTACCAC	CAGTCAAGTA	TTACTTTAAA
187021	CTCAATTCAT	GAATTGAGAC	TTTTTTTTTT	TTTTTTTTTT	TTACGCAGAG	TCCTACTCTG
187081	TCACCCAGGC	TGGAGTGCAG	CGGTGTGAAC	ATGGCTCACT	GCAGCCTCAA	CCTACTGAGC
187141	TCAAGCAATC	CTTCTGCCTC	ACCATTCTGT	ATAGCTAGGA	CTACAGGTGT	GTGCCACCAT
187201	GCCTGACTAA	TTTTTTAAAT	ATTTTTTTTA	GAGATGGGGC	TCACTTTGTT	GCCAGGCCA
187261	GTCTCGAGCT	CCTGGGCTCA	AGTGATCCTC	CCACCTTGGT	CTCCCAAAGT	GCTGGGGTTA
187321	CAGGCATGAG	CCTCTGTGGC	TAGCCAAGAC	TTTTTATTTT	TTAGCCTAAA	TGTGTATAAA
187381	AGTTGGCTTG	TGGTTACAAC	TTATCAGGAT	TGATGATCTC	TCTCTCTCTC	TCTCTCTCTC
187441	TCTGTCTCTC	CCCACCTCTC	TCACATCCCT	TGCTCTGCTG	AGAAGCAGAG	CAACATTTCT
187501	AGCAGTTTCC	AGAGAGTAGG	ATGGGATTAC	TTCTAGTTTA	CTTTTATCAT	CCTTTGGGAT
187561	CGCAGTATTA	CTGGGAGAAC	ACAAGTATCT	CTTATTAGAC	ATACCACCTT	TGTAGAAATCT
187621	GGACTTTTCT	TTTAGACTTT	ATTTGTTTTT	TACTATAAGC	AATTTAAGTT	ACAGATCTCT
187681	CTACACACTG	TTTAAGTTGC	ATCCCATGAA	TTTTGATGTG	CTTTATTGTC	ATTATTATAT
187741	AGTACAATGT	ATTTTGTAAT	TTTTTGATG	TTGTTGGAG	AGATTGATTA	ATTAGAATGA
187801	TGTTTAATTT	CCAAATATGT	GTGTTTTTTT	CTACATTTCT	TATTTTTTAT	GATTTCAAAT
187861	TTATTTCTAC	TGTAGTCAGA	TTTAATAATT	CATTTATTTT	TATTATTTTC	ATTTTTTTAG

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187921	AGACAGGGCC	TTTCTGTGTT	GCCCAGGTTT	GTCCCAAAC	CCTAGTCCCA	AGCAGTTCTC
187981	CTGCCTCAGC	CACCCAAAGT	GCTGGGATTA	TAGGCACGAG	CCACCCGTGC	ACAACCAACA
188041	ATTCAATTTAA	AAAGTGGGCA	AGTGAAC	ACAGACATTT	CTCAAAAGAA	GGCATACAAT
188101	TGGCCAACAA	ATATATGAAA	GAATGCTCAA	CATCACTGTA	TTAGTCTGTT	TTCATGCTGC
188161	TAATAAAGAC	TTAACCTGAG	ACTGGGGAAT	TTACAAGAGA	AAGAGGTTTA	ATGGACTTAC
188221	AGTTCACAT	GGCTGGAGAG	ATCTCACAAT	CATGGTGGAA	GGCAAGGAGG	AGCAAGTCAC
188281	ATCTTACATG	GATGGCAGCA	GGCAAAGAGA	GAGCTTGTGC	AGGGAAACTC	CCGTTTTTAA
188341	AACCATCAGA	TCTCGTGAGA	CTCATTCACT	ATCATAAGAA	CAGCATAGGA	AAGACCCGGC
188401	CCATAATTCA	GTCACCTCCC	ACTGGGTTCC	TCCCAGGACA	CATGGGAATT	GTGGGAGTTA
188461	CAATTCAAGA	TGAGATTTGG	GTAGGGACAC	AGCCAAACCA	TATAAATAAC	TAATCATCAG
188521	GGAAATGCAA	ATCAAAACCA	CAATAAGGTA	TCATCTCACC	CCAGTTAGAA	TGGCTATTGT
188581	CAAAAAACA	AAAAATAACA	AATGCTGGTG	AGGATGTACA	GAAGAGGGGA	CTCTTATGTC
188641	CCACTGGTGG	AAATGTCAAT	TAGCATAGCC	ATTATGCAAA	ATAGTATGGA	AGTGAGGTAG
188701	GTTACATAGG	GTGGTCACAG	CCTCCCTTGA	AAGGAAACAA	GAAACTTGTC	AAATTGATGG
188761	AGAGAACAAA	TCTCTTGACA	TTACACAAAC	TGCATCTGGG	GCTAGTGGTT	AGAATATCCT
188821	CAGTCAAGGA	GGTAGAAGAG	CAGGAGGGAA	AATCCCTAAG	TTCGTGCAAG	TGCAGAAACC
188881	CACAAGCTGT	GTTCTCAGGT	TGACATATAC	TCATTTTAAT	AGTAAGAAAC	ACACCCCTGG
188941	GTAGAGAATT	AAAATGCTAA	TAATACATGT	GATGTATGTA	CTAGCGTGTA	TGGCAATATT
189001	GCATGCACAT	TCAAGAGACC	ACCCAAACAA	TATTTAACAA	CAATGCCCAT	TCCCACCCCC
189061	TCATGGATAA	TCACGTAGGA	CTCCATAAC	GGGAGTTTCT	TCAGTGTCAA	TTGGTGCTGA
189121	AGTAGCCGAC	CCTGACTCTG	CTATCAGCGT	GTACTTTCAC	CTTGCAATAA	ACTCCTTTGC
189181	CTACTTTTAC	TTTGGACTGG	CTTTCAAAT	CTTTTGTGCA	GGGAATTCAA	GAATCTGAAC
189241	CAGCCTACTG	ACAACAGAGG	TTTCTCAGAA	ACCTAAAAAT	AGATCTACCA	GATGAGGCTG
189301	AAAATCTGCT	ACTGGCTATT	TATCCAAAGG	GAAGGAAATC	AGTATACAAA	GAGACACCTA
189361	CATCCCCATG	TTTATTGCGT	CACTCTTCAC	AAGAGCTGAT	ATATAGAGTC	AACCCATAAT
189421	GTTCAATTAAC	AGACAAATGG	ATAGAAAATG	TGGCATATAT	ACACAATGAA	ATACTATTTG
189481	GCCATGAGAA	GAATGCAATC	TTGTCAATTTG	TGGCAACGTA	GATGAAACTG	GAGAACATTA
189541	TGTTAAGTAA	GATAAGCTAG	GATTGGAAAG	ATAAATACTA	CATGTTATCA	CTCATATGTG
189601	AAAGTAGAGA	AAAATTTTTA	GCTCATGGAT	TTAGAGAACA	GAACTGTGGG	TACCGGAATG
189661	TGGGAAGGGT	AGCAAGGAGG	GGAGGATAGG	GAGAGGTTGG	TTAATGGTGA	CAAAATTACA
189721	GCTAGATTGT	AGAAATGAGT	TCCGGTGTTC	TGCACCATTG	TAGGGTGCAT	ATGGTTAACT
189781	CTCATTTTAT	GTATATTTTC	AAAAAGCTAG	AAAAGAATTT	TGAATACTCA	CAACAAAATA
189841	AATGATAAAT	GTTTAAGGTG	ATGGATATAC	TAATTACTCT	GATTTGATTA	TTACACATTG
189901	TGTACACATA	TAAAAATATC	ACTCTTTATC	CCGTATATAT	GTACAGTTAT	TATATGTCAA
189961	CTAAAAATAA	AAGAAAAAAA	GAATATGATC	TATCATGATG	TATATATCAT	GTGTACTTGA
190021	GCAAAATGTG	CATGCAGATA	TTGTGTATAA	TGTTCTATAA	ATCAATTAGC	TCAAGATAAT
190081	AGATAGGATT	GTTCAGATCT	TCTGTGTCTT	TACTGATATT	TTGTCTAGTT	ATTGCATCAT
190141	TACCAAAAAA	AGGGTGTTAA	ACTCTCCAAA	TGTGATTGTA	GAATTGTCTA	TTTTGTCTTT
190201	TCTTTTCCAT	TTTTACTTTA	TGTATTTTGA	AACTCTGTTA	TGACATTTTG	CTATGTATTT
190261	TAAACTTCG	TTATGTATTT	TGAAACTCTG	TTGTTAGAAT	CATACATTTA	TGATTATTAT
190321	GTTTTCTTGA	TGAAATGACA	CTTTTCTATT	GTCATTGTTT	TTGTTTTTTC	TGAAATGGAG
190381	TCTCACTCTG	TTGCCCAGGC	TGGAGTACAG	TGGCACAATC	TTGGTTCACT	GCAACCTCCA
190441	CCTCCTGGGT	TCAAGCGAGT	CTCCTGACTC	AGCCTCCAAG	TAGCTGGGAT	TACAGGCATG
190501	TGCCAGCATG	CCAAACTAAT	TTTGTATTTT	TATTAGAGAC	AGAGTTTCAC	CACGTTGGCC
190561	AGGCTGGTCT	CGAACCTCTG	ACCTCAGGTG	ATCCGCCAC	CTCGGCATTT	TTATTTTATT
190621	TTATTTTTTT	GAGACAGAGT	CTCACTCTGT	CACCCAGGGT	AGAATGCGGT	GGTGTGATCT
190681	TGGCTCACTG	CAACCTCCGC	CTCCTGGGTT	CAAGCAATTC	CCATGCCTCA	GCCTCCCGAG
190741	TAGCTGGGAT	TACAGGCACA	TACCACCATG	ACTGGCTAAT	TTTTGTATTT	TTAGTAGAGA
190801	TGGGGTTTTT	CTATGTTGGC	CAGGCTGGCA	ACTGACTCCT	TTAACAATAC	AAAATATCAC
190861	TCTGTCTCTG	GTAACACTCT	CTGTCTTAAA	CTCTATTTTA	GCTGTTATTA	TTATAGCCAT
190921	TTTAGTCTTT	TTATGCTTTC	TGTTTGCATA	GTGTATATAT	TTTAATATGT	TTATTCTCAA
190981	GTTATCTGTG	TTTTTATATT	TAAGATGTTT	CTCTTCTAGC	CAACGTGTTT	GGTCTCTGCA
191041	TTTTTAAGTC	GATTCTAACA	ATCTTTGCCT	TTCAATTGAA	ATATTTACAC	CATTAAACATC
191101	TAACATTAAC	ATTTATTTTT	CTTTCACAG	TACACTGGCT	AGCATCTCCC	ATATAATATT

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191161	GAACATAAAG	TGTGATAACT	GACATCCTTA	TTTCATTCTT	ACTCTGAGTG	GAAAGGGCAG
191221	GGGTGGAGAA	AGCATTCAAC	AATTGGCCAT	AATTATAATG	CTTTTGTGTA	CACTGTTTTT
191281	TTCTGCATTA	AAAAATATCA	TTACATTTTG	CATGAATTAT	TAGGAGAAAA	TATTTTCCAA
191341	TTTTCTGGA	AAATGCCATA	ACCACGTCTC	TCAATTTTGT	TTCCATCTTT	CTTCCACATT
191401	TTACATAACC	TACATAAGAG	ACACATTATC	AAGTATATTT	TACATGGCTT	CTCAGTGTCT
191461	TCTCTGTCTG	CTAACAGGTT	TACCAAGAGA	TGGCACTCTT	GTATTTCTGG	TGGCTATGTC
191521	CATATCGTTT	TGCCTTTAAG	ACAGCGTAAC	TACTTCTTTC	ACCAGTATTA	AAGACATGTA
191581	CATTTGATCT	GGTCTTGTG	GATGATTTTA	AATGACTCAA	GCTAATAATC	CTAATTTTAC
191641	CTAAACACTC	CATTATTTTA	AAATGTATTC	CTTTATGCCC	ACAATAAACA	TTTATTGACA
191701	TTAGGCTGGA	CATTAGGCTT	CTCTATGGCA	GACATTAGGC	TGGACCCCTAG	CCATATATCT
191761	ATTGAGGGAA	AAAAAATTAT	TTTCTATATA	AGTTTCCAGA	AAGCCAAGAT	GTGTTTTAAA
191821	AACAAAACAA	AACATTACAT	TCTAAATGCT	GTAACAAGAT	AAGAAAAAGT	GTTGAGGCTG
191881	AGAGAAGAAC	AAAGCAGCAA	GCAACTCCTG	GAAGGACCAC	TGCTGCAGAG	GTAATAACTG
191941	GTGAACCATG	TTTTGGAGAA	GGAAAAGGTC	ACCAAGAGAA	GGAGGGGGTC	CAGGGTGTTC
192001	AGAAAGATTG	CATGCATAAA	GATCAAGGGT	AATAAAAAAA	ATTCCGTATT	ATGTAAATGT
192061	GAAGTTCAG	GACCATGAGC	TTGGAGAGCA	TGAAGTACAG	GAGGAGGGTT	GTTTCAAAT
192121	AAATCTGGGA	ATGAAACAGT	GAAGCCTCTG	GCAGAACTCA	CATCTCTTTC	CTCCCCCTCT
192181	CCTTGCACAT	TCCCTTTATG	GAGTAATTGC	AGGGATGGGA	AAAGTTCAAA	ACCACCACTG
192241	AGCCTAGGAA	GTGCTAGGGT	AAAGTGGAGA	ATGAACCTGC	GTGATTTGCT	CATCCTAAAC
192301	TAGGTTCTTC	TAGGAGAGCC	CTTCCCCATA	AAATCTGCCC	TCCTCGAAGG	GGCCCAGACA
192361	GCCTAAGCTC	ACCTCCCAA	GACCCCTTAC	TTGCTGACTG	AATCTGATTC	CACCCAGACA
192421	TGGCCTAAAA	CCCTTCCATA	ACTCTATAGC	CAAATTCAAT	TTTAGACAGG	CCTCATACCA
192481	ACCTTTCTTC	CTCTAAGTCT	GCCACCCTAG	GCAATTCTCA	ACATTCTCTA	CACACTTTGG
192541	GGCCATAGAC	GTGCTACCAA	GTCTCCAGAC	CTAGACCTGA	TGGAGCAGTG	CTGTATGAG
192601	ACGACCACTG	GCCTTTGAAC	CAGACCCCTC	TCTGTGGCTC	CTATGCATCT	CCAACCTGTT
192661	TTGAGCACTG	CTGCCAAGAC	ATCTTTGGCA	CTTTGTTGTG	AAGTTTTAAA	ACTGAACTAA
192721	TCTACAAAAC	ACCTAACCTT	TAAAAATTCA	TTGTCATTTT	ATATCATGAA	AGATAAAGAA
192781	AGGCCAGGAA	ACTGTTCCAG	GTTAATAGAG	ACTAAAGAGA	TAGCAACCAA	ATGCAATTTG
192841	TGATCCTGGA	TTGAGGGGAA	AAAGTGTGTG	CAGAGACATG	ATTGGGACAG	CTGGTAAAT
192901	TTGAATTTGA	ATTTAAAGAT	AAAGTATTGA	GTAATATAGG	AAGATGATTA	TCTGCAACTT
192961	TCAAATGTTT	CAGTAAGTAT	ATATATATAT	AAAGAGATAT	AAAGACATAT	AAATAAATGG
193021	ATAGGTAGAG	AAAAAGCAAA	TGTATAATAT	TAACAATCTA	GGTAAAAAGT	ATATGAGTGT
193081	TCTTTGTACT	GTTTTTCTGA	TTTTTCTATA	TGTTTGAAAT	CATTTTAAAA	TAAGAAGGTT
193141	TTTGGGTTTT	TTTTGTTTGT	TTTTGTGTTT	TAGAGACAGC	ATCTTATTCT	GTCACCAGGC
193201	TGTAGCTCAG	TGCCCCAATC	ATTGCTCACT	GCAGCCTCAA	CTTCCTGGGC	TCCAGTAATT
193261	CCCCCTACCT	CAGGCTCATG	AGTAGCTGGT	ACTTCAGGTG	TGCACCACTG	CACTCAGCTA
193321	ATTTTTATTT	TTTAAATTTT	TGTAGAGATG	GCATGTTGCT	ATGTCACCCA	GGCTAGTCTC
193381	AAACTCCTGC	CCCCAAGTGA	TCCTCCCACT	TTGGCCTCCC	AAAGTGCTAG	AATTATAGGC
193441	ATGAGCCACT	GCACCCAGCC	CCAAATAAAA	AAGTATTTTA	TTTAAATTAA	CTAATTAACT
193501	TTGAGTCAGA	GTTTCACCCT	TGTCACCCAG	GCTGGAGTGC	AATGGCATGA	TGTTGGCTCA
193561	CTGCAAACTC	TGCCTCCTGT	GTTTAAGCGA	TTCTCTTGCC	TCAGACTCCT	GAGTAGCTGA
193621	GATTACAGGT	GCCTGCCACC	ATGCCCAGCT	AATTTTTATA	TTTTTAGTAG	AGACGGGGTT
193681	TCAGCATGTT	GGTCAAGCTT	GTCTCAAAC	CCTGACCTCA	GGTGATCCAC	CCACCTCCGC
193741	CTCCGAAAGT	GTTGATGAGC	CACCACACCC	GGTCTAAAAA	GTATTTTAAA	ACCACAGTCC
193801	CACTCTACCT	TGTCCTACAC	TACCAGGGGC	TAGGATCACC	CCATGCTTTC	TAGGCTATGA
193861	GATAGAGGAA	TCCAAGGAAG	AAGATAAGCT	ACTTGGTTCC	TCTATAGGGT	CTTGTGTGTG
193921	CTCTCATGTG	CTCTCTCTCT	CTCTCTCTCT	CTCACACACA	CACACACACA	CACACACACA
193981	CACATGAATA	CCAGAGCTAT	CACCTTCCCA	GTCTAGTACT	CATCTCATCC	CAAGGGTTTT
194041	GTGTTGTAGT	GGTTTGCTCA	TTTCTTTGTT	TTGTTTGTGTT	GCTTGGATTA	TTCTTTTTCT
194101	CTTTTTGCAG	CTGAAGGGAG	AATTTCCAGG	CCAGCCCTTT	GGCCATTAGA	GTTACAGTGC
194161	CTCTATTTCAG	GCTTCATAGA	GAGACCTGGG	ATTCAGTAGT	GGGGGGCTTT	TATCCAGTTC
194221	AAAATAATGC	ATTCTCACCA	AGATGTACTT	TGAAATAAAA	CAATACTAAA	ACACAAAATT
194281	TTATTTATGC	TGAACATTGA	ATCACTTTTT	TCTGTATTTT	GTGTAGAAAG	TTATACACAC
194341	ACAAACACAT	TTGCTCCTGC	TTTGTGTTATT	GGCCCAGGGG	TATGTTTGGT	AATACTTCAT

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194401	CAGGCATGAG	TAGTACGTCT	TGGAAGGTGT	GGTCTAAAGC	CTAGACTCCT	ATCTGCTTCC
194461	TTCAGCATT	TCCAGTGTAT	CTGTCTCTG	TCTACCTTAG	GATAGGGGTC	TCCAGAACTT
194521	CCATTACAT	TTAGAAGAGG	GCAGCGGCTT	TCTATGGAAA	ATATGAACTC	TCATTCATCT
194581	CTATTCCTT	TTCTAGCTAT	GGTCCAGCTC	AGCTGTTTGG	AATAAAGTAT	CTATATGAAG
194641	TCTGCGAATG	GTTCTCAGAC	TGGTTGAACA	TTAGAATCAC	CTGAGTACCT	TCTAAAATTC
194701	TTATTACCCA	GGGCATATCT	CAGAATGAGT	ACCGCAGGGT	AGGGATAGGA	TTAGGGATCA
194761	TGATCTCTGG	AGTCTGGTTT	AGGCACTAGT	GCTGTTTAAA	ACTACGTTCA	TGAGGTGGAG
194821	GTTGCAGTGA	GCCGAGATGG	CGCCACTGCA	CTCCAACCTG	GGCGACAGAG	TGAGAGTCTG
194881	TCTCAACAAA	ACAAAACAAA	AAAAACCAAC	TACCCTTGTG	ATTTGAATGT	CCATCCAAAA
194941	TTGAGAACCA	TTAGGTAAGG	CCAAGCTGTA	TAATTAAAGA	GCAGTTTTC	TTTGTCTGGT
195001	GTGGTGGCAG	CTTTTGTGATA	AGGGAAGTAT	TGTTGCCATC	CACATACCTG	AGCCTCACTC
195061	CTGAGAACAC	TGGTGTGTAT	GTTGCTAAAA	TTCCCCAGGT	GATTCTGAGG	TTCCCTCTCG
195121	GATAAAACC	ACTGACCCTG	GGAATGTACC	CACTGCCAAT	CTCCTGCGTA	AACCTTGGAT
195181	ACTGGGAAGC	CTACAGTTGA	AAATATTGGG	CTTGAGATCC	TGAAACAAAT	CTTGTATTTT
195241	ATTAAGACTA	ATATTTGGTA	CAGTGCAGCA	AATCAAGGGA	ATTTTGGTGG	CTGAGTCTTT
195301	TTAGAACTTT	TGCATTGAAA	TAGGTTCAAG	CAGCAATAAG	TTAAACTAC	AACCTCAGCT
195361	AAAGGATTAA	AAGACACGTG	AGCTGGGTAG	GATGAGGTCT	AAGGTTGGGT	GTGGCGGCTC
195421	ATACCTGTAA	TCCCAGCACT	TTGGGAGACT	GAGGTGGGTG	GATCACTTGA	GGTCAGGAGT
195481	TCAAAACCAG	CCTGGCCAAC	ATGGTGAAAA	CCCATCTCTA	CTAAGAATAC	AAAAAAATTA
195541	GCTGGGCGAG	GTGCCAGGCA	CCTGTAATCC	CAGCTACTGG	GGAGGCTGAG	GGAGGACAAT
195601	CACTTGAAC	CAGGAGGCAG	AGGTTGTAGT	GAGCTGAGAT	CGCACCCTG	CACTCCAGCC
195661	TGGGTGACAG	AGCAAGACTC	CATTTAAAAA	AAAAATAATA	ATAATAACAA	TAATAATAAT
195721	TCAGACATAT	CCAGGCATCA	AACAGATACC	TGGGGCAGAT	GAATAGTCTT	GAGATTCAAG
195781	TCACACATGA	AATTTAGGTG	GAAAATGACA	TTGGAGAAAT	TTGAGATTAT	GATGAATGGA
195841	AATTTTTCAA	AGAGGAATTT	CAGGCTCTGT	TCTTGAGGGG	ATAGATGGAC	TTCCAACAGC
195901	AATAACACAG	GATTAATGAG	GACTTGGGAT	GTTACATAAA	TTAGAGATGT	TAGATGGATA
195961	AAGAGATAAA	AGTACTCTCT	CTAAGAACAT	GGGACCAGAG	ATAGGCTCAC	TTCTAACCAT
196021	CAGATATAAC	TAGCAGACTA	AACGGTCTAA	AAATAAAAAAT	CATGCCCCAC	TCTGCTTTAA
196081	GACATTTTAA	TTACTCTCAG	TAACTCTTCA	GTTTTTCTAC	TGTGTTATCT	TTAACTACAG
196141	GGTGGTCTG	GGTGTGCAAC	ACAAGAAAGC	CTGGCATATA	CATGGATTCA	AGTGTATGCC
196201	ATGTGCAGGT	ATTCTTTCAT	GTACTATTTT	ATGTATTCTT	TTTCACATCT	GTTTTTTCCT
196261	TCATTGAAGT	CAATGGCTGA	TATTAGATTC	TACTATTTCAT	GTGTACTAGT	TATATATAAT
196321	TGTTACAAAA	CAAATTAGCA	AAAACCTAGT	GGCTTAAAGC	AACACACATT	TATTATTACC
196381	TAAGGTCTGT	GGATAGAAGT	TCTGACATGG	CTTAACTGGG	TTCCCTGCTT	CAAGCCTCAT
196441	GTGGCTGCAA	TCCAGGTGTT	GGCTGAGTCT	GAATTCTCAT	CAGAGGCTTG	ATTGTGGAAA
196501	TTTCCACTTC	CAAGCTCCCT	CAGGTTTGTG	GAAAAATTCA	GTTCTTTGCA	CCGGTAGAAG
196561	CTTCTTGGTA	GAGGCTGATT	CAACTTCTAG	AGGCTGTCTG	CAGTTCTCTG	CACCCAGGGT
196621	GGAGTGCAGT	GGAGCAATCA	TAGCTCACTG	CAGCCTTGAC	CTCCAGAAAT	CAATCTGTTT
196681	TCCCACCTCA	GCATCCTGAG	TAGCTGGGAC	CACAAGTGTG	TGCCATCACA	CCTGCCTAAA
196741	AAACAAACAA	ACGAAAAAAA	ACCCCCAGAG	AACCTTGTAG	AGACAAGCTG	GTCTGGAAC
196801	CCTGCGCTCA	AGCAATTCTC	CTGCCTTAGC	CTAAAAGTTC	TGGGATTATA	GGTATAAGCC
196861	ACCATACCTG	GCATATGGCA	AGTCTTGAGC	AGGACAAATA	CAGATGATTT	ATGCTGTCTT
196921	TCCATGGTAT	TCTAGGTTAT	TGTTGAGATG	GTCTCTATT	GTCTTGTTCT	ATCTATTGAT
196981	TAGATAAAAC	GTTGTTCCCT	CTGTTATTTT	TCAACAGTAG	CTTTTATGTC	TCTCTCTTTA
197041	TCTTAAATTT	CTAACCAAAG	AGCTGTCTCT	TTCTTGGTGT	ACTTTACCTT	TGGTTGATCC
197101	TTCTTAACCT	CTTCTTGCCC	TCTGGGGCCT	AAGATGAGGG	CTGTTATCAG	ATGTGAGTCT
197161	ATGGGAAAGC	AAGCAAGAGG	TTCTTCAGCC	TCCGTTGAGC	CTTAAATGTC	TAGGTAGAAA
197221	TCAGTCATGG	CCCTTCCAAT	GTGGTACAGA	CCAGATCACA	GAGACAGGGG	TCTCAGCCAA
197281	GGTCTTGTGG	CCTAAGCCTT	ATAGAAATAA	TGAGTGTTTA	CTTACTTGGA	GAACCTCCCT
197341	GGAATATCTT	TTTTTGTGAA	CCTGAGGCAA	CTTTTGGTGA	TTTCTTGATG	TCTTGGGAAT
197401	CTTGGTCTAG	AGCCATTTC	ACCCGATTTT	TTTTTCATGT	AGTGGCATTT	TGTGACCAGA
197461	TAGTAAATAA	GTTCTATGAT	GTTCACTCAG	AGAAATACAA	TGACTTATGA	TGCGAAGCTT
197521	CTGTGGTTCA	GCCCTTACTT	CATCTTCATT	CCCTCTTATC	TGCATCTGTC	TCCTGCTTGG
197581	GAACAAAAGT	CTGGCTTCAT	TCTATGACCC	CCACGTTGAG	TTTCTTAGTA	GCACCTACTT

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197641	TTCAATTAGG	AGTGTCTCA	CTTCTATCCG	TCAGACATAA	CTAGCCGACT	AAACAGTCTA
197701	AATATAAAAA	TCATGTCCTA	CTCCTGCTGA	AAACATTTTA	ATTACTCCCC	ATCATTTAAT
197761	TTTTTCTACT	GGGTATCTT	TAACTTCAGA	GTTGGTCTTG	TGTGCAACAC	AAGAAAACCT
197821	GGCATATACA	TGGATTCAAG	TGTATGCCAC	GTGCATGTAT	TCCTTCATGT	ACTATTTTCT
197881	GTATTCCTTT	TCACATCTGT	TTTTCTCTCT	AAAATTTTAT	TCCTTTTAAA	AATGAAAATT
197941	TTGCATTTGA	CTAAATTTGT	CAAATTTAGT	CAAATTTGTT	TAAAACCATT	TTTAAAATGT
198001	TTCCCGAAGT	TTTGAGTGAA	GTTAGTACTT	CAGAAAAACT	GTTTTGTATT	TTTCCTGTGA
198061	CCTCAGTGCA	CTGCTGTGCA	TTTCCATTTC	TGCGTCCACA	CACATTTGTT	TTGAGGAAAT
198121	ATAGGAACGA	CAAGATAAAG	TTCAAGCTCC	TGGACATTGC	ATAAAAGACC	GTCATGACCT
198181	GGTCTGTGTT	ACTTCCCTAG	ATTTCCCGCT	ATTTCCCTAAG	TTGAGATTTT	TGGTTTGGAT
198241	GCTTTGTGTT	TTCCTAAAA	CAAAATAGGT	TTTTGCCTTT	TATGATTATA	CAGTAAATAA
198301	ATGCTATTTG	TGTGAAACTT	TAAACAATAC	AAAAAAAACC	TAAGGAAGAA	AGTCAGATTG
198361	ATCTAAAAAT	CCTTGTGGCC	AGAATTAAC	ACCTTAGTTA	CTATTTTCTC	TATCTCTCTC
198421	TCTCAATGTA	TATTTGGTGT	AGGTATAGGG	GTGTGTGTAG	TGTGTGTGTA	TGTATATATC
198481	TGTTTCTATT	CCTGTATGTG	GATGTGCACA	ACGCATCCTG	CTTTGTACAC	TACAGTACTA
198541	GCATTTTCTT	AATGTAATTC	AATATTGTTG	AAAACATTTT	AAAAAAGCTT	GTATATATAC
198601	ACACACATAC	ACATACATGC	ATGTATGTAC	ATATACACAT	ACAGACAAAA	ATGTATCCTA
198661	TGTATATTCA	CACATGTATA	CACACTCACA	CATACATAGA	GTTTTACATC	CATAGTTTAT
198721	AAATGTTGCT	TTTTTTTGGT	CACCTTTTTG	CTAAGTCTTA	CACCTTTTTT	TTTTTTTTTT
198781	GAGACGGAGT	TTTGTGTGCA	TTGCCCAGGC	TTAGTGCAGT	AGCGCGATCT	CACCTCACTG
198841	CAACCTCGAC	CTCCCGGGT	CAAGCGGTTT	TCCTGCCTTA	GCCTCCTGAG	TAGCTGGTAC
198901	TACAGGTGTG	CGCCACCATG	CCTGGCTAAT	TTTTGTAGTT	TTTTTATAGA	GACGAGGTTT
198961	CACCATGTTG	GCCAAGCTGG	TCTGGAACCT	CTGACCTCAA	GTGATCTGCC	TGCCTCAGAT
199021	TCCCAAAGTT	CTGGGATTAC	AGATGTGAGC	CACTGCACCC	GGCCAAGTCT	TACACATCTT
199081	TTTTTTTACCA	CTAAACTGTT	TACCCAAACC	TGATAACCCA	AGTCAACAGC	TATTATGGCT
199141	CACACAATCT	TATGTAAACA	AAGATACAGA	TATATAGAAT	TTTCTTGATT	AATATTGAGA
199201	AAAAAATGGA	GTCCCTTTAT	ACGTCCTTAG	TATCTGCTTT	ACTCATTTAA	AAATGTATTA
199261	CATTATATGA	AAGTATTCAG	GTCAAATGTT	ATAGATGTGA	TTCAATCTTT	TTAACTGTGT
199321	TATTTTTCTG	CAATGACTAT	GTATCACAAA	GTACTCAGTC	TTCCACTGAT	GAAAATTTGG
199381	GCTATTTCCA	GTTTGTCTTC	CATTTTTCTT	TCTTCTCTTT	GGATTTTCAC	TCAATGTGTT
199441	TACTAATTTA	GGAAGAATCA	ATAGTTTTTA	TGGTATTACT	TCTCCCATTG	AAGAATATAG
199501	CATATGGTAT	AGTATAGTAG	AGTACTTAGT	TTAATTTAGC	CAGATCCTGT	TTTCTGCCCT
199561	TTAATAAAAT	TCTATCATTT	TCTGCCTTTG	AGTCACATTT	TCCTTGTTCA	TATAATTCTT
199621	AAAAAATGTA	TAGTTTTCAT	TCTAAGGGAA	CATAAAAACT	TCTTTCCATT	TCTATTCCTG
199681	TCTAGTTAAT	TCTACTATTG	GGAAAAGTAA	CTGTTAAAAA	AAATTCCTAT	CTTTCCAGTC
199741	AGTTCACCAC	ATTTCTTTTA	TACCTTTGTA	CTTTAATCCC	CAGTCATGTT	GAACACTTCT
199801	TATTCCTCAC	ACCAAGCCTC	AACGGGTTTG	CTCTTTCTGG	AAGGTGCTTC	CCCTGTATTA
199861	CTGACTTATT	CATACCACAC	ATGGAGACTG	GCGCAGCCCT	GTTCTGCCTG	GGAAGCCTTC
199921	CCCTGATACC	CCCAGTTGGC	AGGAGTCTTC	ATTTGTTCTT	TTCTAGTCAC	CTGTGCAAGT
199981	TTGTATTGTT	CATGTTTATC	ATCCTTCATT	CTAGTTGTCT	GTCTCTGTGT	GTGGTCTCAT
200041	TCAGTGGACT	CTGAACFCTT	ATGAAGTCAT	GTCATGGGTC	AGATCTTAAT	AAATTAATAT
200101	TGTCGGAAGC	TAATGTCATG	TCTAGAATAC	AGAAAATTTA	TCAAAAAAAA	ATATAGTATG
200161	TTGGCTGGGC	GCACTGGATC	AAGCCCGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCAGGAG
200221	GATCACATGA	GGTCAGAAAT	TCAAGACCAG	CCTGGCCAAA	ATGGTGAAAC	CTCATCTCTA
200281	CTAAAAATAC	AAAAAGTAGC	CAGGCGTGGT	GGTGCCCACT	TGTAATCCCA	GCTACTCAGG
200341	AGGCTGAAGC	GGGAGGATCA	CTTGAACCTG	GGAGGCAGAG	ATTGCAATGA	GCTGAGATCA
200401	TGCCACTGCA	CTCCAGCCTG	GGCGACAGTG	AGACTCCATC	TCAAAAATAAT	AATAATAATA
200461	ATAATAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
200521	TTTTTAAAAA	ATTATTATTT	TTTAAGTTCC	TGGGTACAAG	TACAGGATGT	GCAGGTTTGT
200581	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
200641	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCCA	CCCCATCCTC
200701	CCCCAACAGG	CCCCAGTGAG	TGTTGTTCCC	CTCCCTGTGT	CCACATGTTC	TCATTGTTCA
200761	GCTCCCACTC	ATAAGTGAGA	ACATGAGGTG	TTTGGTTTTT	TGTTCTTGCC	TTAGCTGTTA
200821	ATGTCAGGCC	AGAGAGGCTT	AAATTTTTAA	GGATCTCTGG	ACTTTTCTTC	TACATTACTC

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200881	TTGATGTTTA	TAAATGTTAC	AACTTCTTTA	ATTTCAATTA	ATGTATACCT	TATTGAGTTG
200941	ATTTAACTGA	GTAACTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
201001	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTCAGTAAAC
201061	TAATGTTTAT	TAAGCGTGTA	CTGTCTTAGT	CTGTTTCAGAC	TGCTGTAACA	AAATATCATA
201121	AACTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCTGGAG	GTGGGAAGTC
201181	TAAGATTAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTTGCTG
201241	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCCTTGGG	TTTCTTTTAT	AAGGACACTA
201301	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCAAAGAC	CCCTCCTTCT
201361	AATATTATCA	CTTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTTG
201421	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
201481	AAAATGAACA	AGATCCCCTC	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTA
201541	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTC
201601	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
201661	ACTTTTTCTA	CCAGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
201721	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTTCTT
201781	TCTTTCTCTC	TTTCTCTTTC	TTTCTTCTC	TCTCTCTCTT	TCTTCTTTC	TTTCTTTCTT
201841	TCTTTCTTTC	TTTCTTCTT	TTTCTTCTG	ACAGGGTCTT	GCTCTATTGC	CTAGGCTGGA
201901	GTGCAGTGGT	GCAATCTCAG	CTCACTGCAG	CCTTGAAGTC	CAGGGCTCAA	GCAATCCTCC
201961	TGAGTAGCTG	GGACTATAGG	CATGTGCCAC	AACATCAAGC	TAATTTTTGC	ATTTTTTTGT
202021	GGAGACGGGA	TCTCCCTATG	TTGCTAAGGC	TGGTCTTGGA	TTCTGGGCT	TATGCGATTTC
202081	TCCTGCCTCA	GCCTCCCAA	GTCCTGGGAT	TACAGGCATG	AGCCACTGCC	CCTGGCCATT
202141	ATAACTATTT	TCATTGGCTT	ATCAGGCACA	TGATAACTAT	AATAAATCAA	TAACCAGAAT
202201	TTTTAAATAA	AGAAAGGAAG	GAATTGTTTC	AACTCTTCCT	GCTACCCCTC	TATCCCTCAA
202261	AAGGGTAGGC	TGAATGTTGT	CCTCCAAAGA	TATCCATGTC	CTAATCCCA	GAACCTGTAA
202321	ATATATTACC	TTATATGACA	AAAGGGACTT	TACATGTTTA	ATAAGTTAAG	AATTTTGAGA
202381	TGGGCAGATT	TTCTGTAATT	TTGCAGATGG	GCCCTAGTGT	AATCACAAGG	GTCTTATAA
202441	GAGACAGGCA	GAAGAGTCAG	AATAAGAGAA	AAATACTTCA	AGATGTTACA	CTGCTGGCTT
202501	TAAGGTGGAG	GAAAGGCCAA	GAGCCAAAA	ATGCAGTGGT	CACTACAAGC	TGAAAAGAAA
202561	AAGAAATGGA	TTTTCCCCTA	AAGCCTCTGG	AGGGGGCACA	ACCTTGCCAA	TACCTTGATT
202621	TTGGCTCAGT	GAAACCCATT	TTGGACTTCT	GACCTTTAGA	ATTGTAAATA	AATAAATAAT
202681	TTTGTGTTGT	TTCAAGCCAT	CACAGTTGTG	GTAATTTACT	ACAACAGCAA	TAAAATAGAA
202741	TTAAATACAG	AGATCTGAGG	AGTTGAGTAG	GATAAGCCTA	CTCCAGCAGG	TTATTTGCGG
202801	AGTATGGTGA	GAATCACTAG	GATGGCGGAA	CTCAATTAAG	GAAGTCTGAA	GCTGATAAGC
202861	CAGAGAGGGA	AGGCTCTCAT	TTCATTTTAT	AAGGGTTGCG	TCACACTAGG	AAGATCCAAT
202921	AGCAACCACA	GTCTCAAAAT	TAATGATTAC	AAATAGGACA	CAATTCCAAG	AGTCGGGAGC
202981	CAAGCAGAAA	ATGGATTAGG	GAAGACATGG	ATGATATGAA	ACAGGAAGGA	GGGGTACAAG
203041	GCAGCTTCCT	GGGAAGTTGC	CAGGGCAGTC	ACAGTTCACA	TTCATTAGGC	TGTGGGCACC
203101	AAATGCATAT	GGAAAATCTA	GCTGACTTAA	CTGAATCCT	GAAGAGGAAT	GAACACCTCA
203161	TTTATTGAGG	AGCTACTACC	AATTAGAATA	TGTATTTTAT	TTGTTCAATA	ACCCCATGAG
203221	TACAGTAACA	CAATCCTTGC	TTTACTAAAG	CGGAAGCCAA	TTCAAAGAGG	TTCAGTGACT
203281	TGTCCAAGCT	CAGGGAAAAC	ACTAGGAAGT	GAATATGGGT	CTGACTCCAT	CACTGATTTT
203341	AGGAGCCCTG	CCCTTTCCTC	CACACCATGC	CCCCTTGCTT	TCAGAAAAAA	AGGCTTGTTG
203401	ACTGAATGGT	TGTATGCACA	GTTCAAAGCA	GAAACACACG	ATGACATCTT	TTGAGATACT
203461	CTAACAGTGA	GAACCTGAAA	ATGAAGTTAA	AAATTAAGCG	GCAAAACCAA	GCCGAGGCTT
203521	TCTGAGAAAAG	TGGGGCCAAA	CCTGTTGCCG	TCTGACTGCC	ACGTGGCTCA	CTATTTATCC
203581	CTGTAAAAAT	CTGCAAAAGT	ATTTGAAAGG	GAAGAAGGGA	CAGAAAACCT	CCTCCTTTTC
203641	CAAGTTAGCC	TTATAGTCTA	GGGCTTAAAA	TACTGGTTTA	ATGGTGAAGG	TAAGTGCTTT
203701	TCTTCTTTTT	GGGTAGAAGG	ATTATTACTA	ACTTACCAAA	GGTCCATTAA	GGGGAGGGAA
203761	CAGTTTTAGG	AGAAGTCAGA	GAAAAGACAT	TAACAGCAAC	ATAAGGATCT	CCATCTGGTA
203821	ATATTGCCTA	ATTCCAAAAT	GAAGAGACTC	TCTGAAAAAG	ATAACTGATT	CAATGAAGAC
203881	CCTAGGGCAA	GGCTTGAGAA	GCCACTGGTA	CCAATGGACA	CTGTGGACAA	TGGTCATTTT
203941	TCCAAGGACG	CTGTGAGTAT	TAAGTGTGAT	GCTGTGATTA	GTCAGACTGG	GATTGGCTGT
204001	GGAATGAAAT	ACTGATCAGA	ACTGACAAGA	TTTGTGTTTG	GGACTGTGGC	TAACGAGTCT
204061	TTTCAGACTT	CTATATGAAT	TTGAAATGGT	CTCTCAGGAA	AAGGAGAACA	TGGCCGGGCC

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204121	TGGTGGCTCA	CGCCTGTAAT	CCCAGCACTT	TGGCAGGCTG	AGGCGGGCAG	ATCACTTGAG
204181	GTCAGGAGTT	TGAGACCAGC	CTGGCCAACA	TGGTGAAACC	CTGTCTCCAC	TAAAAATACA
204241	AAAATTAGCA	GGGCGTAGCG	GCGCGTGCAC	CTATGCGCAT	GCATAGTGC	CGTGCCAGCT
204301	ATTGAGGAGG	CTGAGGCAGG	AGAATTGCTT	GAACCCAGGA	CGTAGAGGTT	GCAGTAGTTG
204361	AGATCATACC	ACTGCACTCC	AGCCTAGGTG	ACAGAGTAAG	ACTCTGTCTC	AAAAAATAA
204421	TAATAATAAA	AGAAAAGGAG	AACATGACCA	AAGTTATGAA	TAAGACTGAA	GGCAAGAAAA
204481	TTGTACGCTT	GTAGAGATCA	CCTAGCTTGT	TGCCCTCATT	GTACAGCTAA	GAAAAGGCAC
204541	CCAGGGACAT	TGTGGTCAGC	ACCAATTTCT	CAGAAAGATA	GGCAGATGAT	GAGAGGGCCC
204601	TCAGTTTTTC	TAACACTGAA	GGAATTGCTT	CTATGTTTTT	TGGTGAACTC	CTCCCCACTC
204661	ATCTTGAGGA	TTCCAGGCCA	GAAGAATCCA	CTTTAAAAAA	GAAACATTTA	AAACCAATTT
204721	AACAACCAAT	CAAAGGCACT	TTTATAGAAA	TACATTTTAT	TTGCTGTAGG	CCTGTATTTA
204781	TGGATCTGAG	AGGGCTAGAC	TGCCAATATT	GTGACTGTTT	ATTATTATTG	CTGTTGCTAG
204841	TATCTAGAAT	ATTATACAAC	ATATAACACT	TTGCAATTTA	CGAGGCATGT	CTCATACTTT
204901	TGTTTTTCACT	CCAAACTGCC	CAGTGAAGTA	ACATTATCCC	AATTCTTCCT	ATGAAACAGT
204961	GAAAGCCCTA	AGAGTTTTTG	AAACTTTTACC	TGGTTTACTC	AATTTGGGAA	TGGCAGAGCA
205021	GAATTCAGTC	CTTGAATATC	CTCCCACATG	AGGTTTATGC	TCTTTGATCT	AGGTGTAACA
205081	TTTACTCTGA	GTAAACTAGG	ACTCTGGGCT	AACAGAGATG	AAGCAAGACA	GGCTGGATAT
205141	TAGGAGAATC	TAAGAGCAAT	CTAACGACCA	TTATAATAAA	ATCATGAGTT	CTAGACTTAA
205201	AAAAAGGGAA	AAACCTGTTT	TTTTGCTTAT	GCGTATACCA	TAATATTTAC	ATTATTTTAT
205261	TTTTTCTCAA	ATTCAACCTA	TACTGTGTCA	AGTAATTTTT	TTTAATATAA	CATTTTCTTT
205321	TAACCTAATT	TCAATTCATT	TTTCTGTGTC	TACTTACAAC	TTTGGCACTA	GAATTCACAA
205381	TTTTTTTTTTA	GAGGTATATC	TCCTTAAAGG	GAAGGGTTCT	GACACTGTTA	CATGTTCTCA
205441	ATTGTTTGCA	AATAGGTTAA	TAATTATTCC	AGTGTCTCTA	AGTACATATC	AACCATGCCA
205501	GTGTTTCAGCC	TCCATAATTT	TATTAGCTTC	TGTGCTTATT	TTGGAAAAAC	ATTTCCCAT
205561	ACCATGAAAG	ACCTCAGTTT	AGGATGGTTT	GGTATGTTAG	CCTGATTTCT	GCATTCGTCT
205621	CATGCAAAGG	AAAATAGGAA	ACGAAGAACT	GAAATTACCT	ATTGATACAA	AATCAAAGTA
205681	GCATTTGAAA	CCATAAAACT	TAAGTAGGGC	TTTTTCATCT	TTCTCGTTAG	ACAGCAACAG
205741	AGAATGGGAA	GAAAAACTAA	AGTGATGGGT	TTGTGATACA	ATTCCAGTAA	CATAAAGAGC
205801	AAGGAGAAGT	AGTTTTGTTG	TGTTTTATGTT	TAATATTCAA	AGCTCAACCT	AAAAGTATTT
205861	TTCATTATCA	AACTTCCTTC	TAGAATAAAT	GATTAAAACT	TGATTTAAAA	TATACAAATT
205921	CTCCTTTTATA	ATACCTCAAA	ATGGAGCTAC	CCCATTGAGT	TTTAAGCTTG	TGATTTAAAT
205981	ATTATGAAAA	CAAAGGGGAA	GTTGTAAATAG	GTAGAACAAG	CAGTAGTCTA	GGCATTAGGG
206041	GATCTGGTGC	TGGCTCTGTG	CATCATGTGG	TTTCAGGCAA	CTTTTCAAAT	TTTCTACGCA
206101	AATTTTCTTA	TCAATAAAAT	AAACAGTTGG	GCCAGAGGAT	CTCTGAGTCT	TTTTTCAGCTT
206161	TCAGTGTTTA	TAAGATTGGA	GAAGTTGGTG	GGAAAGCTTT	AAGTGGAGTG	TAAGTAATTG
206221	CAGCTGCATG	TACAGTTAAA	GAGTTGCCTT	CAGCCAAGCC	ACGGGATCTT	GCATAAAAG
206281	TGAAATCAAA	TAGAAAATGG	TCCAAACTCT	GGGTTTGACC	ACAGATGACT	TCAGCTAGGA
206341	TCTGAGTGTA	GAGCAATGAG	CTGAACTCCT	GATATCCAGA	TGTTAGCAAG	ACTTGGAGGC
206401	CTTCTAAGGC	AGAGCAACAA	CCAGTATCTG	TCCTGGTGCT	GACCTGATCT	TACTAGCAAT
206461	TGGGCCTCCA	TTTGGGTCCA	TTGTACAAAA	CAACAACAAC	AACAACAATA	AAATCTCCAA
206521	ACACCCAAAA	TTCAAAATTT	AGATGGAGAG	ATACTATTCC	CAGAATTCTA	GAGATATTTG
206581	GAAAGCAGAA	AACTATACTT	GCCATGCTGA	TGAAGTCCAA	TTATTGCTCT	TTTAAATACA
206641	TTTAGCTACT	TCTGAATATA	AAATGAGTAT	CTACTAATTA	TTTACAAAAT	CACTTGGTAA
206701	ATATAGAAAG	TCACAAAGAA	TGAAGTGATC	ATCCTGTTTT	GTAACCCAGA	AATAGTCATT
206761	ACTGGCACTT	GTGTGAATCA	GTTTCTATTC	CTGTATGTGG	ATGTGCACAG	CGTATCCTGC
206821	TTTGTACACT	AGAGTACTAG	CATTTTTTCTA	ATGTAATTCA	ATATTGTCTA	AAACATTTTA
206881	AAATAGCTTC	CATCACAATA	ATCTATCAAA	TTGACTTGCC	AGACTCTCAT	TATTAGGTTA
206941	ATTTATCTCT	AACATTATGC	AGTCATGAGT	AATACTACAA	AGGATATTTT	TGGACACAAT
207001	TTTTCATCTA	TGCCTTTCTT	TATAATCCTT	CATCCTAAGG	TCACAGATTA	TGAATATCTT
207061	TAAAGTACGG	ACAAGTCTTT	TAAATTTTGT	GTGCAAAAAC	AGTGCAAAAG	CTTGAATGAT
207121	AAAATAGAGG	TTGATATAT	TGTTTTTTTT	GTTTGTTTTGT	TTTGAGACGG	ATTCCTGCTC
207181	TGTCCCCCAA	GCTGTAGTGC	AGTGGCACGA	TCTTGGCTCA	CTGCAACCTT	TGCCTCTTGG
207241	GTTCAAGCAA	TTATCCTGCC	TCAGCCTCCT	TAGTAGCAGG	GTCTACAGGC	ATGTGCCACC
207301	ACACCCGGCT	GTTTTTGTAT	TTTTAGTAGA	GATGGGGTTT	CACCATGTTG	GCCAGGATGA

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207361	TCTCGAACAC	CTGACCTCAA	GTGATCCACC	CACCTCAGTC	TCCCAAAGTG	CTGGGATTAC
207421	AGGTGTGAGC	CACTGCACCC	GGCCGATACA	TGTGTTTTTA	AAGTCACAGA	AATTTTCAGAT
207481	GTCTTGAAGG	ATTTTAAGCA	ATTTAAAAAA	TAAAGTCATA	GAAGCTTCAA	TTTAGGAATG
207541	AATGGAAAAT	TGATGATATT	CTTAGGATAT	GGATTTTCC	TAAAAGAAAC	AAATGTATGC
207601	ATCCCCAAAG	ATAATTTGAT	TAGTATACAA	ATATTAAATT	AAACATGTCC	ATATTTAGAG
207661	CCATGAATTC	TCTTTGCCTG	TCACAATAGC	TGGATTTATT	CACAATTGTA	GTAATTAGTC
207721	CCTGTTCAAT	ATAATTTTCT	AGGTGATATG	AAGACTTTGT	CAGTCCAAGC	AAGTGTCCAC
207781	ATTGTGTGTA	GCAAACATGA	GAATAAACAT	TTTAACTTT	TAAATGTAAT	ACATATTAGT
207841	GTTATGTAAT	GTCATCCTTC	ATGTTCTGAAG	GCACATGGAA	CATTGTTCTG	GTGGTACAGA
207901	GGGGAGAGAA	ACACCATCAG	AATGAAAGGA	AAGACCGCTC	TGGAACCTTC	CTCCTTAGCT
207961	CTTGAGCTTA	GTTTAATTGT	CCTGTCTTAT	GGTCTGCTAC	AAGCAATACC	ACTCTTCACC
208021	TTTCGCATGCT	TCTCTGTGGT	TTGATAAAGT	ACATGCAATT	TTTCATTTAA	TTCTTCAGC
208081	TGCCTAAGA	AAGGAGCCTT	ATCTTTATTG	AACAGATGAG	GAAATGAATG	ATTAGAGAAT
208141	TTAAATGACT	AGCTCTAGGT	CACACAGCTG	GAACTTACAG	CCAGATTTCC	TTTTAACAAAT
208201	CCTGTAACCA	AAAGCATACC	AGTAGTGCCC	CATAAAATGT	AAGTTATAGA	GCTGTGTTGG
208261	GTCAAACTT	TTACTGATGC	TAAGAGGAGG	CAACATTAAC	AAGGGGAAAT	TATTTGTGTA
208321	TTATGTTTTG	GATTATGTTT	TCTCCATAGA	TAAAAGACTG	TCGTAGTAAA	AGAGATTCAG
208381	GGCACAGGGA	AACTCCACCA	CAAAGCGTGG	TACCATTTCC	CACAGAAGCT	AAATGGACGG
208441	GAAGCCTGCC	ACCAGGAAAG	GTAAGCCAC	TGCTCTTGTT	TGCAGGCTAT	GTTAATAAGC
208501	TGAAGCTTAT	TCCGACACAT	TTACACATCT	CTGCATCACA	CTGACCCTTC	GTAAAGATAC
208561	TCCCAGTGTA	ACATTGGAGC	CAGCTCCAGC	CCCTGATCCT	GTTGCTTTTT	CCTTAGCCCC
208621	ATGAAATCAT	CTGTGAGAAA	TTAAGCCAAA	TAAGCAATAA	ATCCTGGGAT	CTAGGGAGTG
208681	GAATAAGTTT	TGGGAAAGTC	TTTTTTTTTT	TTTTTTTTGA	CTGAGTCTTG	CTCTGTCTCA
208741	CAGGCTGGAG	TGCAGTGGTG	CGATCTCGGC	TCACTGCAAC	CTCTGCCTCC	CGGGTTCAAG
208801	TGATCTCCT	GCCTCAGCCT	CCCAGTAGC	TTGGACTACA	GGCACACACC	ACCATGCCCA
208861	GATGAATTTT	TGTATTTTTA	GTAGAGATGG	AGTTTCGCCG	TGTTAGCCAG	GATGGTCTCG
208921	ATCTCCTGAC	CTCGTGATCC	ACCGGCCTCG	GCCTCCCAA	GTGCTGGGAT	TACAGGCATG
208981	GGCCACCACG	CCTGGCCCCG	GAAAGTCATT	TTAAACCAAC	CTATGTATGA	ATCCCTACTA
209041	TAATATTCTC	ACCAAGCGGC	TGGCTCTTTC	TCCTGAGCTT	GGAAACCTCC	AGTAAAATGG
209101	AAATAATTAT	TTCCAGACC	ACCACCTTTA	TCGTGAGCT	TTTTTGGCCA	TTAAAAATTA
209161	TTCTTCCAT	TATATTTTTA	TCTGTGTCTT	CACAGGTTTT	CTCTTTCTTT	CTTTTAGTG
209221	CTTTTCTTCA	AATAAGCAGG	AAAAATCCAA	TCTATCATGC	ACATGGGAAC	CCTTTCAATA
209281	TTGGTCTGTG	GTTGTTCCAT	TTTATGGGGA	TGCTTTTAAA	GAAAAAATTT	GTCCTTTCAA
209341	TATATTGAAT	ATCTTCCAGC	ACCACATCAC	CTGCAAGCTT	TGTAAAAATA	GTTCTACATA
209401	TTAATTTTTT	TTTTTTTTTT	GAGATTGAGT	CTCATTCTGT	CACCCAGGCT	GGAGTACAGT
209461	GACATGATCT	TGGCTCATTG	CAACCTCTGC	CTCCTGGGTT	CAAGTGATTG	TCCTGACTCA
209521	GCCTCCCGAG	TAGCTGGGAT	TACAGGCATG	CATCACCATG	CCTGGGTAAT	TTTTGTATTT
209581	TTAGTAGAGA	TGGGGTTTCA	CCATGTTGAC	CAGGCTGGTC	TCAAACCTCT	GACCTCAAGT
209641	GATCCACCTG	CCTTAGCCTC	CCAAAATGCT	GGGACTACAG	GCGTGAGCCA	CTGCACCCCA
209701	CGTAGTTTTT	TTTTTTTTTT	AAGTTGAACA	TATGTGAAGG	CAGGACCTAG	TGACACATAG
209761	CAATAACATT	TCCAAGTAGA	CATTACACTA	GGGAATTAGT	CGAAGTGCTC	ATTTAAAGTA
209821	CCATCTCTCA	AATGTATTAA	AAGAGAATCC	TTGGATGTGC	AATACCTTAA	TTCAAAGGCA
209881	GCTCGTTATG	TATAAACTCT	CAAGCTTTGT	GATAAACAAA	TGTGCATAAC	AGATGGGACT
209941	ATTCACCTAC	AGCCCAGGGA	ATTTTATTGA	CGCTGAGAAG	GTTATGTGAC	TGGCTCTGCC
210001	ACTGTCATCC	CCATTCACCT	CATTTTGGAG	CAATATGACA	TAAATGCCTT	ACATGTGGGT
210061	TTTCTCTATT	TATCATGTGT	TTCTTATCCC	CTTGAAAGAT	GGCCATATTT	GCTTTACTTG
210121	GTTATAAGAT	CCCATATTCG	CTGTCTTGAA	GCCAACCAAA	TAATTTGACA	AAGTGGGTTT
210181	GTAGTGCTGG	CTATTTTGGT	GAAAAAAGA	CAATGAGACT	TCATGTGTCA	TCCAAAGTTC
210241	TATCAGATCG	AGCTGTGAGA	GAAAGGAAAA	GAAAGGGGTC	TCAGTCAGGA	TGCTCACTAC
210301	ATACATCTGT	GTTGTTGTCT	AGGTCCAGAT	TTCTGTTTCT	TACGCTATGG	GCTGGCTCTT
210361	ATCATGCACT	TCTCAAACCT	CACCATGATA	ACGCAGCGTG	TGAGTCTGAG	CATTGCGATC
210421	ATCGCCATGG	TGAACACCAC	TCAGCAGCAA	GGTCTATCTA	ATGCCTCCAC	TGAGGGGCCCT
210481	GTTGCAGATG	CCTTCAATAA	CTCCAGCATA	TCCATCAAGG	AATTTGATAC	AAAGGTAAGT
210541	ATGATGGAAA	ATAGGGCTCT	TTGTTGAGAG	AAAAAATTTT	GAAAGGAAGG	CATAGATCTT

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210601	GATTCTGTGG	AGTATGGAAG	TATACATTTC	CAATGACAAA	TTAAAACTGA	CTGGAAGTAT
210661	TTTTCTTTGA	GACATTGCTT	ACTTCAATAA	TAAAAATAAG	ATTTTCATTGA	GGTTATTATG
210721	ATTATAAGGT	GGGGGAACTG	TAGAGTTAAA	TGTGAAAAAT	TTAAAAATGG	AACAGTTTAT
210781	GTGATGTCTT	CAATGAAAAA	CTAGGTATTA	CCTGGGCACA	TTCTTATAGG	TTACTCAATC
210841	CTATTTCAGTT	CTCTGCCTGT	TTTATTGTTT	CTGAGCAATT	TTATATCCCT	GTAAATTCTA
210901	TATAACCAAT	AGAAATGCAA	ACGATTCTTG	TCCATAGCTT	TGCAAATAAA	TTTGTCCAAG
210961	AGAAAAATCA	GTTAAAACTT	TTCTCCACTC	ACCTCCCAGT	TGAATTAGCC	AATTTTGCTG
211021	TTTGTTTGTT	TGTTTGT TTT	TTGAGATAGA	GTCTTCCTCT	GTCATTTCAGG	CTGGAGTGCA
211081	GTGGCATGAT	CTCAGCTCAC	TGCAGCCTCC	GCCTCCCGGG	TTCAAGAGAT	TTTCCTGTCT
211141	CGGCCTCCCA	AGTAGCTGGG	AGTAAGGGGG	CATGCCACCG	CGGCTGGCTA	ATTTTGTGAT
211201	TTTGTAGTAGA	GACAGGGTTT	CACTAGGCTG	GTCTCGAACT	CCTGACCTCA	GGTGATCCAC
211261	CCGCCTCGGC	CTCCCAAAGT	GTTGGGATTA	CAGGTGTGAG	CCACTGTGCC	AGGCTCTGCT
211321	GTATATTTAA	AGTCTATTTT	AGCATTGCTT	CCTGCTTGTT	TTATGCGTGA	TTCTTTGAGT
211381	TTTCCTTTGA	ACCAGTTATA	ACATCTTACT	TACTTCCTCC	ATTAATCAAT	GAGTTAAATA
211441	AAATCTTTGT	TGTATGTTTA	TTTTACATTT	ATATGAAAAC	CATGAATTTA	CCCAATTAAA
211501	AAAATTATCC	TTTAAATTAT	CTTGTTACTGT	ACATTTCCCA	TGTCATCCCT	ATAATTCATG
211561	ATTAATGATT	TTATTACATT	GGACCTAGCT	TATTTACAAT	GAGTACATAA	ATTTATTGTC
211621	TCCAGTCTTT	CCTCCATTAT	CCCGTCTACA	TATCCACACT	GAGTAGATTG	ACTACTCAGG
211681	AATCTTGGAC	ACCTTCAAGT	TGCCAAACAT	GCAGTGTTC	CTGGACATGC	TGTGTTCTTT
211741	CAGAATTTGG	GCCTGCTTCT	CAGCACACTC	ACATCTGCTA	TCAATGACCC	ATGGAAAGTT
211801	TTTGCCCTGA	GCAAGCCAGA	GTCCCTGTTA	GTTTCTTCCA	AATGCTACAA	GTTCACTTTT
211861	GCTATTTTTT	CCGATGAGAT	AAAATTTTCC	TTTTTGACTT	TCTACAAATC	ATAGTCATTT
211921	TTCAAGGGAT	AGTTCAAGTA	TTGCTTCTTT	TCTGGGACCT	TCCCAAATTA	TTATTTTCTC
211981	CTCTCAAAGT	CTCTGTTTTA	TTTATGTTCA	TCCTCAAATC	TTGATTCTCA	CATGAATCAT
212041	ATACCTTTGA	TTATTTATAG	TTTTTTTGAG	TGGGTAAAAT	ATTTTCATATT	TTATATTCTT
212101	TGGCTCTCTA	CTTTATAGCA	TGATGCCAGA	TATTTAGGGG	CCTTATTGCA	TTTATTTTTT
212161	ATTTTATTTT	AAAATCTATT	TTATTTTTTA	TTTATTTATT	TTAAATCTA	TTTATTTTTA
212221	GGTAAATATT	CAGGTAATAT	AATTTATGTA	ATTATTTAGG	AATTTTAGGT	AGTTATTTTA
212281	AAATAATTCA	AATTATTTAT	TGAGTTATAT	CAGAAGAATG	TGATCTTATT	CATTTGTAAT
212341	ATGTGTTTTA	GGAACCTCAGT	TCAGCCAGGG	CAGACCATGA	TTCCCAAAC	TGACTTTTCT
212401	TTTTAATTAG	GCACTGATTT	TGGTTAAGAG	TTCAAGTAAAG	TTTTGTGTGT	GTGTTTTAAA
212461	AAATCTTTTG	ATATAAGAGT	CAAGATGTTA	CTCAACTTTT	ACTAGAAGCA	AAATAGAGGA
212521	AGTGCTTTCA	CAGATGAAAT	ATCTCTCAAT	GTTTTCTTCC	ATTTACTTCT	TCCTATTATT
212581	CATCTATATA	ATCATTTTCT	TTACCTCTTT	TCTTCATTTC	TTCTGTTTTT	CTCTCCTTCT
212641	ACTAAGACAA	GCAAATTAGG	GGTATAATTG	GTTATTTGGG	AAGGTAGGAA	GAATATAGAG
212701	AGAAACAAAA	ATCAATATTT	TATACTAGGG	TCTCACTAAC	CTCAAGCAAC	TCTGACTGTA
212761	AAGTAGATTT	TCATAATAGG	ACTTCTTGAC	AAAGAGTTTT	CCTATTTTTT	CCCCAGGCCT
212821	CTGTGTATCA	ATGGAGCCCA	GAAACTCAGG	GTATCATCTT	TAGCTCCATC	AACATATGGG
212881	TAATACTGAC	TCTGATCCCA	AGTGGATATT	TAGCAGGGAT	ATTTGGAGCA	AAAAAAATGC
212941	TTGGTGCTGG	TTTGGTCATC	TCTTCCCTTC	TCACCTCTTT	TACACCACTG	GCTGCTGACT
213001	TCGGAGTGAT	TTTGGTCTAT	ATGGTTCGGA	CAGTCCAGGG	CTTGGCCAGG	GTATCCAGAT
213061	ACTTTTCTCAT	TCTTGGTGGG	ATCCAGATTT	CTGAATTCTA	CAAAATATCA	AAGGTCTTAA
213121	TGATTTTTCAT	TTTGGTGGG	GGCAGTGACA	GGTCAGTTTA	CTATTTGGGC	AAAGTGGGCT
213181	CCTCCACTTG	AACGAAGCAA	GCTCACCACC	ATTGCAGGAT	CAGGTAAGTG	TGCACAGATG
213241	GGTCATAGCT	TTGTCATCTG	TTCCATCCCA	CTGTGCTTTA	TCTTCTATGA	ACTCAATGGT
213301	TTGGGGAAGA	GAGAGAAAAA	GTACTGCTGA	AAAATTCAAC	AATATAAGAC	ACTTGCATCA
213361	CAAATAGGAA	AGATGCATCT	GTGCAGTAAA	GACATTGAAG	CTTAGAAGTA	GAAAAAACC
213421	TTGTGAGCTA	GGTTTCAGCT	CAGAAAAGCC	TTAGTAGTCA	GAAAAGCCTT	AGTAGTCAGA
213481	AAAGCCTTGT	CGGAAAAAGT	TTAAACCTTT	AAGAATTGCA	CACATGGAAA	AAGATCAAGT
213541	AAGCTATATA	TACACCATCT	TAGCAATGAT	TTTGAAGTGA	GAATTAAGGC	TACCACAGCT
213601	CCAGGTGGTA	AGGAGAGAAA	TCAGGCTGGA	AGAGTTTGAA	GTTTCTGTAT	TATTTCTAAGC
213661	TCTTTACTAT	TCTATTATGA	GCTCATTAAT	TCTCACAACA	ACCCTCTCAT	ATAAGTACCA
213721	TTTTAAATTC	TTATTTTACA	GAGAAGGGAG	TTAAGGAAGG	TGGAGATTAA	GAAAATTGCC
213781	CAAATACAAA	TAGCCAGCAG	GTGGTAGGTC	TGAGATTTAA	GCCCATGCAG	ATTTTAGCCC

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213841	CAGAGCAGAC	ATTCTCAATC	ACTATGCTAG	ACTGCCTTTC	CATGGTATGT	GATCCTACTC
213901	AGGCCTCTAC	AGCTTTATCA	TTGCTGTTCT	CCCCAGCCTG	TCGTGCTGAG	AGTATATACT
213961	CGAAGAGCAG	AACTAAAATT	CCATCCAGCT	TCTCACTCCT	AGGTCCACTA	CACAGCTGCA
214021	TCCTGCAGAC	TTTTACCTCA	AGCAACCCTC	CTGCGTTCTT	GCTTCCTTCC	ATCATAGTTG
214081	TAACCATCTC	CTCTATTTGC	AAATACTATC	TGCTGATCTC	TCTCTTCTAG	ACTGGTTTCT
214141	TTCAACCTTC	TTCCACCAA	AACCAAGTTA	GCTTGCTAAA	ATAAAGATGG	CACATTTTTA
214201	CTCACCCGCT	TGAGAATTTT	CAATGTGTTT	CTTCATGCTT	ACAGAGTAAA	GCCTGACCTC
214261	TTTATTGCAT	GAATACAAA	GTTCTTAGCC	ATCTGGCCCC	AACCTTGTTT	CACTCAACTC
214321	CCCTGTGCAA	GCATGGCTCC	AGTGGCACTG	GACATTGGCT	GCTCTCCACA	TAGATCTGCA
214381	CTGCACTTCC	CTCTGGCTCT	GCTCCCGTTA	GTTTATATGC	CTGGAAAGTT	CTTTGCCCTT
214441	GTTCTTGTG	CCAAAATTCC	ATCTATCCTA	TTGCATAGCT	TATGTAAAAA	CTTCCTAAAC
214501	CTTTTPTTTT	TTTTTTTTTT	TTTTTTTTTG	AGACGGTGTC	TCACTCTTTC	GCCCAGGCCG
214561	GACTGCAGTA	GCGCTATCTC	GGCTCACTGC	AAGTCCGCC	TCCCAGGTTT	ACGCCATTTT
214621	CCTGCCTCAG	CCTCCCGAGT	AGCTGGGACT	ACAGGCGCCT	GCCACCATGA	CCGGCTAATT
214681	TTTTGTATTT	TTAGTAGAGA	CGGGGTTTCA	AGCCAGGATG	GTCTCAATCT	CCTGACCTCG
214741	TGATCCGCCC	GCCTCGGCCT	CCCAAAGTGC	TGGGATTACA	GGCGTGAGCC	ACCGCGCCCG
214801	GCCAAAACCT	CCTAAATCTT	ATAATTATTA	TCAATTTATC	CTCAGATATA	CTTCCACGTA
214861	CATTGTAGTT	TTATTATATT	TATATTTTAC	ATCTTTTTTT	TCAAATTTCA	GTTTGGGACC
214921	CATTAGTGAG	TCATAAAATC	CATTGAGCGG	GTTAAATCA	TTATTTTAAA	AAATGAATAG
214981	AATAGAATAG	AAATTGTTGG	AGTGCACTGG	ACATGGTAAA	GTAAATATC	GATTCATGAA
215041	ACCATCGTTT	GAGGCATATG	TGTGTGGTTG	TATGTACAAG	TGTTTATGCA	TATTGGTGTG
215101	TGTGTTATGT	TACCCTGTAA	AATGCATTTC	TTACTATAGG	TCTCTGTGAA	ATATGTGTCT
215161	TGTTGTTTTT	TAATGTAGAC	TTCCAAAGCC	TACATGGCAT	TTCACTAGTG	ACAATCAATT
215221	TTATTCACAT	TTTTCTCTCC	AATTGGACCA	GAAGCTCTTT	GAGGGCAGGG	GCTGTATCTT
215281	ACCGATTTTT	GTAAGTCTTT	CATTTCTCTG	CCCTAGCCTC	ATATTAGATC	ATGCAAGAAT
215341	GCAACTGTAA	TCACAAGAAA	ATGCTAATGG	GCTGTGATAG	CAGAGAGTTA	CTGTGACAAA
215401	CTAAGGGATT	TAGATTTGGT	CACATTGGTG	TTGAGGAGCC	ATTGAAGAAT	CAGAGAGTGT
215461	GTTACTATTA	TTTGTTAATT	TTAATTATAT	CATATTACTT	TACTGGGGAA	AATCTGTGAG
215521	CTATTTTGA	AATAAATACT	CTCAATGCCC	ATAAATTCTA	AGTCTGCCAC	CTCACTGTTG
215581	GGACATTGTT	TAGGGAGGCC	ACGAAGTCTC	AGCCTTTGAT	ATTTTCATAA	GTTGTTTTCT
215641	CCCTTTTTCC	TTTAGGGTCA	GCATTTGGAT	CCTTCATCAT	CCTCTGTGTG	GGGGGACTAA
215701	TCTCACAGGC	CTTGAGCTGG	CCTTTTATCT	TCTACATCTT	TGGTGAAGCA	CTTTCTCTTA
215761	AATCCTAACG	CCTCCATTTC	CTGAGCATCC	ATTTTGCCAC	CTACACCACC	CACATTCTTC
215821	CTATATGAAA	GAAAATGTCC	TTTATCAAAT	GGAAGATGAT	AAAAAATGTC	AACGGTTGGT
215881	ATCATTTTTA	ATCTAGTCAC	ACAACCTGAT	TAACACCTTC	CTGGTGGTTC	TGGGAAGCCA
215941	CACGCACAAG	GTAGAGGAGT	TGACTATTCA	CATGGCACCC	ACCGACTTGT	GATGCAGTCT
216001	TGTCCTTCCA	TATCAAGCAC	CTTCTGCAGA	ATCTCTACCA	CCACATCTGA	AGTGCCCTGCT
216061	ATATGCAGTT	AAGATGTCAA	AGATAGTGAA	GTACATTTTC	AATGTGTCTT	CATATTTTCAT
216121	TATAATTATT	ATTTCTGTCC	AAGATGCCTT	TCACCTGTTT	TCTACCAAGT	TAATCTTGCA
216181	AAGTTCAATT	CAAATGTTCC	CTTCCCCATG	GGCCCTTCCA	GGGCTTACCC	TATCAGATTC
216241	TGGCATTCTC	TCCTTTATGA	TATTTCTCTT	CTAGGTTATG	TTGGTGTGTA	ATTATTTATT
216301	TCTCCTTTTC	TTTCCACTAG	ACTGTGAAAT	GCTTGAGGCA	AGGAATCCAT	TCTATGTTTT
216361	CATCACTTGG	GTGTCATCAT	GGTGCCCTGAT	TTTTAGCTTT	AAAATAAAAG	AATCAGTGAA
216421	TCCAGTAATT	AGAGGGGATT	TAAAGAAAAC	TAGTCCTCAG	AATCTTTTAA	CATAGAATGT
216481	CTTCAAATA	AGGAATTCCA	ATAATAAGAC	AATTTTCTAC	ACTTGATTTT	GTTTTTATAG
216541	CCAAATGGTG	TCATTAAATA	TAGTCTGGCC	CTGAATGGCT	TTCTCATTAA	TGATGCTAAT
216601	TATTTTGGTT	TGTACATGTT	AACCAGGTAT	TGTACAAAAA	TATTTCTTTT	GGGAATCCAT
216661	AATGGATGTA	TGGCTTGAAT	ACAAATAATA	CTGTCTCTTG	TAAGTGCAAT	GGAAATTTTT
216721	CCCTGCCACA	TGATTTTCATG	GAAGGTTGTT	TCGTGTATGT	ATGACTGCAA	ACCTGACTAT
216781	TCAGATCTTC	CGCAACAAGA	CAACTTATGT	GTGCATTAAG	AAGTTGCTGC	CTAAAAATACA
216841	TAACACTGTA	ATCATTGGAG	ACTTTAAAGT	AATTAATCAG	CTATGCAATG	CCACGCTCCT
216901	GTTATCTCCA	GAGGGCTCTG	ACATTGACAA	ATGGTGGCTT	TCTATTTGAG	ACGTAATATC
216961	TAAAAAGCTT	TAACAGGTTT	GTAGAAGGAT	TGAAAGAAAG	AATGGGAACA	TTTAGGTCCT
217021	TATGGTAGAA	TAAGCATTAA	TTGATTAGTG	TGTAGAAGGG	AGAGGCATGC	CACTTCAGAG

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217081 GAAACTTCCT TCCCCCAGTA AACAAATCTA CCTAAAAACT AATTTTATCC CTTCTTCCCA
217141 GGTAGCACTG GCTGTGTCTG CTGTCTCCTA TGGTTCACAG TGATTTATGA TGACCCCATG
217201 CATCACCCGT GCATAAGTGT TAGGGAAAAG GAGCACATCC TGTCCTCACT GGCTCAACAG
217261 GTACAGTGCA CACCTTGTAC CTGTGGCCCA TGCAGAGGTC TCTAGGGCAG GGTGTGGATC
217321 TCCTCTGAGA GGCACCATCT TGGCTGCTCT AATACTCATG CTGATTAGAT CTTTCTTTTC
217381 AGCCCAGTTC TCCTGGACGA GCTGTCCCCA TAAAGGCGAT GGTCACATGC CTACCACTTT
217441 GGGCCATTTT CCTGGGTTTT TTCAGCCATT TCTGGTTGTG CACCATCATC CTAACATACC
217501 TACCAACGTA TATCAGTACT CTGCTCCATG TTAACATCAG AGATGTGAGT TTACTTCCTA
217561 TACTTCTACG AAAATGATAA TGGTAATAAG GAGAAAACAGT TCTGTGTTAC CTATTACATT
217621 CTGGCTTTAC ATATAACCAT TAATTTAACC TTCACAATGA CCTTGAGAGA GGCATTGTTA
217681 TAATTCCTT TTCACAGATG TGGAAACAGG AACTTAGAG GTGAGATAAC TTGCCCCAGG
217741 TTGCACAATA CTAAGTGATA GAGCTGCTGC AGCATCCATA TTCTTAACCA CTTATCCATA
217801 CTACCACACC AGCTGATTCC AAAGCTTCTT TTAGAAATAA TATTGCTGGG CCAGGCATGG
217861 TGGCTCATGC CTGTAATTCC AGCACTTTGG GAGGCCGAGG CAGGCAGATC ATGAGGTCAG
217921 GAATGCAAGA CCAGCCTGAC CAATATTGGT TACTAAATAT CATCTACTAA AAATACAAAA
217981 ATTAGCCAGG TGTGGTGGCA GGCACCTGTA ATCCCAGCTA TTCAGGAGGC TGAGACAGGA
218041 GAATCGCTTG AACCCAGGAG GTGGAGGTTG CATTGAGCCA AGATCATGCC ACTGCACTCC
218101 AGCCTGGGCG ACAGAGTAAG ACTCCGTTTC AAAACAAAAA AACCCAAGAA ATTAATATTG
218161 CTTTTATCTG GAGCCCAGAG TGATGCAGCT TCTGGCCCTC TTATCTGAGA CAGTGTCTCT
218221 TTAGTGTGAA AAAGGATGCT AATTTTCCCC CAAACAACCC ACAGTATCAT GGGGGTAAGT
218281 TAATGGCTGG TCTGTGTAAC TGACAAATTT TGGTGCTAAC GTATCTCTAT AACTACTCTG
218341 TATAAACTTC CTTCCCTTCAG AGTGGAGTTC TGTCCTCCCT GCCTTTTATT GCTGCTGCAA
218401 GCTGTACAAT TTTAGGAGGT CAGCTGGCAG ATTTCTTTTT GTCCAGGAAT CTTCTCAGAT
218461 TGATCACTGT GCGAAAGCTC TTTTCATCTC TTGGTAAGGA TAAGCGTGTG GGCCCATTTA
218521 ACCAATCCCT TTTCTGCACA TGGTCTCAGA GGGTTCCTG ACAGCATGTC CTCATTGGCC
218581 AGGGCTCCTC CTTCCATCAA TATGTGCTGT GGCCCTGCCC TTTGTGGCCT CCAGTTACGT
218641 GATAACCAAT ATTTTGCTGA TACTTATTCC TGGGACCAGT AACCTATGTG ACTCAGGGTT
218701 TATCATCAAC ACCTTAGATA TCGCCCCAG GTAAGAGCTC TACCTGTTTT TTCCCTCCT
218761 CCAGACCCCT CCAGAGGTGT TAGCCCTCAG TGGTCGCCGT GAAACTCTTT AATGTTACTG
218821 ACATTGCACT AATGGCAGAA TGACAAATAA CTACAAATAT CTGTCTGTGG CCATTTTTAG
218881 AACAAACAAAT GTGGCATTTT TAGAACACA ATTTCCAATC TTGGCCAGTA ATCATTTTGA
218941 CAAAAACCTT CCCAAGCTTC CCTAACAGAG ATTGAAGTGT GTATGCTGGG AAAAGGCCCA
219001 CACACAGGTG ATTTGGAAAA GTTTCATGG TGTGTTCAT ATTAGCTACC ATATATATAT
219061 ATATATATAT ATATATATAT ATACAGTCAC AATAAGCCAG CTCCTGTGCC AAGACTTGCC
219121 ATATATCAAC ACATCTAATC CTCACAGTTA TATTAGGTAG GCCCTATTGT TATCCCCATT
219181 TTATAAGGGA GAAGGCTGAG GCACAAGGAG GTTAAATGGT GTGACTATGG TCACATAAAG
219241 GCAGAGCCAG GATTTGGACT GGGGGAGTCT GGCTTTGGAG TCTGTGTCCT GCCCGTTGCA
219301 CAAACTGGCT TCTCCACTGA GCAGCCGGGG TAAAGAAACG TGGTTCCCAG AGAGACTGCA
219361 TTGCTCCCTG GTTATTGACT TGGTAGATTG GTAATTTTCAG GTTTGGCAAA TAGACATTGC
219421 CCTGAATGTC TTTAGGTGAA TGAAAACTG CATTAAGCAA AATGACTTTG CCATTAGAGC
219481 TGAATTGCAT TAAAGTTGAG TTGCTGCAGA AGCTGTAGGT GGCTTTCTAT ATAAAATCAT
219541 TTATAAAATC ATCTTCCAC AGATATGCAA GTTTCCTCAT GGAATCTCA AGGGGATTG
219601 GGCTCATCGC AGGAATCATC TCTTCCACTG CCACTGGATT CCTCATCAGT CAGGTTGGGC
219661 CAGTTTATTG AACATCTTCA AGTGGCAGGT ATTGTTTATG GTGTTGGAGA TACACACGGT
219721 GCTCTAAAGA TCTGGATGGC AACACAATTA CTCTATTAC ATGAGCCTCT AAATCAGACT
219781 CTGGTAGGTC AGATTTCCCA GAGGAAGAAA AATATAAGCT TATTTTCTCA AGATGAATAG
219841 ATGTTAGATT GATTAAAATG AGCTGTTCCG GTGCAGAAGA CAGCACGTGT GACTTCCTAG
219901 AGGTACATGA GCATGAAACA GTTCTTAGTT ATGACCAGAA TGAAAGACAC ATGTCAAGGA
219961 ATAGCAAGAG ACGAAGACAG AGGGGCAAAA GAAGATCATG AAGAATATGT TCAGACTAAT
220021 CCAATTTTTA AAAAATCACA AAAGGGAAAC AAAGTGTCTT AGGCCAGTTT AAAGATAATT
220081 TAATGTCTGG AAACAGATCG GCTGTGAGAC ATTGCAAGGA GGCTTGCTCG GTGTTTGGAA
220141 ATGCAGGCTC ATGAGGAAGA TGAAAAGACA GACCCAGGCA GGGATGGAAG GACTGACGAG
220201 AACCACCTTA CAAAGAGAAG TTTTGTTTT ACTACATTTT TATGTGATCA AGTTCCGAGG
220261 TTAATATTG ACTAACTGC TAGGAATCCA CTGTGACTAT AATGCTGGAA ATGACTTAGT

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220321	AGGGCTTTCT	GAGGAGGGTC	ACACAGAAGA	CCAAAGAGAA	CTCATGTTGA	ATTGAGATGG
220381	GTTGTAGTGA	TAGTTGTCAA	CAGCCAATAC	AGAAACAAAA	AAAAACAAAA	CAACACAGCA
220441	CAACAACAAC	AAAAAAAAAC	AGAGAAGACA	CAAACACAAT	GCCACAATGC	CATTTTAGGC
220501	ATAATTTTAA	ATGAGTAATA	TTATATGTTG	AAATCCAAAT	TTTCAGAAAA	ACATTAGTGT
220561	ATTTTATTTT	TGTTTAAAGA	AATAACCATC	TCAACTCAGA	ACCCCATGTG	CATTTTGGCC
220621	ATTTTGTTC	CAATAGTTTC	ATAAATTTTC	TTAAGTAACT	ACTGCACATT	GTTCCTTATA
220681	TTCTTGTGA	TCAACATTGC	AATACACAAC	TGGGAGGGCT	ACTAGAAGTG	GTGTAGAAGG
220741	AACTTGTGAG	ATTGATCATT	TTCTCTGTTT	TTTACATCTA	GGATTTTGAG	TCTGGTTGGA
220801	GGAATGTCTT	TTTCTGTCT	GCTGCAGTCA	ACATGTTTGG	CCTGGTCTTT	TACCTCACGT
220861	TTGGACAAGC	AGAACTTCAA	GACTGGGCCA	AAGAGAGGAC	CCTTACCCGC	CTCTGAGGAC
220921	ATAAAGTTAC	AAACTTAAAT	GTGGTACTGA	GCATGAACTT	TTTAAACATT	TTTACTTCT
220981	CTCCATATTC	CTGACCATAG	ACTCAGCAGT	TCTTAACTCT	GGCTGTGTGT	TAGTCTTCCC
221041	TGGGGAGCCT	TTATAAGACA	CTGATACTTG	GGAGCCACTC	CAGAGATTCT	GAATGAATTG
221101	GTCTGGGGTG	GAACCCAGAT	ACTACTAATT	TTTAGATACT	CCTTAGAGGT	TTCTAGCATG
221161	CGCCCGGGGT	TGACAACAGC	TGGACAAACT	TGAAAAGTCA	ATTCTGTGG	CCTTTGAATT
221221	TTCTTCATTG	GAAAGTACTA	AATAAATAAA	AATTCATGTG	AAAATGATCA	CTGATAAATA
221281	TCTTCATGGT	GGGGCAGGTT	ATTGGATGCA	GAGAAGATCT	GCTCGGAATT	GTAGCCATAT
221341	GTTACAGATC	TCAGCACCAG	TCGGAAGTGT	AAAGCTATAA	TCCCCAGAAT	TAAAGTTTTT
221401	ATTATTTTTT	ATACATTGTA	AAACATAGAC	GTTTATTTAT	GTGATTAAAT	TCTATTAAAA
221461	TTTACATGCT	AAAATAAAAT	AGACCATTTT	CAAATTATTT	AGATCCAGAT	ATTTCCATCA
221521	GATTAAACAG	ATATTTATTT	ATCCTAGCCC	AATTGCAAGA	GATTAAATGAT	GAGAAAATGA
221581	CCAATACAAG	ATTAAATAAA	TGAGGTAAAC	TTAGAAATCA	AGGACAGAGA	AGATAGAACT
221641	GGAAGGCTTG	TATTGTGAGA	AGAATGAAATG	TGAAGGAAGG	CAATGTAGAC	ACTTCCAGAA
221701	GGGATAGCAA	TATAGTTTAG	ACCATATAAT	GAAAATTGGA	GAGAGATGAC	AGAGACACTT
221761	TCAAGTGAAA	TGACAATTTA	TATGGGGGAG	AAAAATATTG	AAGACATAAC	AAGATGAGAA
221821	AAGGCATAGA	AATGTATCAC	ATACAAGGCA	TAGAAGTGTA	TCACATACAA	GAGAAGTTCC
221881	TTTTGAGCGT	AGAAAAAGAT	AATTTAACCT	TCTTCATATT	TTTCTTACTT	TCCCAAGATA
221941	CTCAGATAGG	CAGCGTCAAC	TCTAACAGGA	ATTAATTTGG	CTCCTAACAC	TTAAGACATA
222001	TCCTTTAGTT	TGTCTCCTCA	CACAGGAAGT	ATTCTGGTTT	TGCCACAACA	GTCCTGAGAA
222061	AGAAAGTTCCC	ACCATATTTT	AAATCCTATT	AAAAAACTGC	TTGGACAAGA	ACCTTGGGTT
222121	AATTCAGCAG	ATGAAGAGAA	TCTCCTAATG	CAAATCAATG	GGTATTTTTG	AGCAAGTTTT
222181	TCAGAAAAAC	AGAGTGTGAG	GCCCTGAGGG	TGGTACTAAG	ATGAGAACAT	TGATTTTGCC
222241	TTTATGATAT	TGACAACACA	AAGAGGAAAG	GGGGTTTGCA	GAAAACTAAA	AGAAGAAGTA
222301	GAAGAAAAAA	GAAAGACATA	GTATAATAGG	TAGTCAAATT	ATGTACAGAA	AAAAGAGAAA
222361	AAAAAAACAA	AAAAGGGTGG	GGGACAGACA	ACCCAACTAA	AAAATGGGCC	AATGACTTGA
222421	ACAGGGACTT	CATAAAAGAG	AAAATGTAAG	TGGCTCCTTA	ACATATAAAA	AGATGTTCAA
222481	CTTCATTAGT	CATTACAGAA	ATGAAAATCA	AAACTACAAT	GAAATACCAC	TATAAAATTA
222541	ACTAATGGAT	AAAATGAAAG	GAGATGGAAA	ACAAAATGTT	GCCAGACATG	TGGAGCAACT
222601	GGAACCTTCA	TACGTTACGA	ATGTGAACTT	TGAAAAGCTG	CTCGGCAATA	TCTCCTAAAG
222661	CTAAATGTAC	AATTCCAGTG	ACTCAAACAT	TTTACTTAGA	AATGCACATA	TACATCCATA
222721	AAACATGTAC	AACAATGTTT	ATAGGAGCAC	TATCTGTAAT	AGCCTGAACA	GGAAGTTGTC
222781	TGTTAAAAAA	AGAATGAGTA	AATAAACAC	GGTCTATTTG	TATAGCAATG	AGAATTAACA
222841	GACCCCAATA	TATAATAGAT	GAATGGGTCT	CATAAGCACA	ATATTGATTA	AAGGAAGACA
222901	AAACGCACAT	TCTTTTAAAG	GTTTATAAAA	TACTTTTTAA	AAACAGCTAC	AACCAATCTG
222961	TCCTGTAAAA	AATCAGTGAG	CGATTTCCCT	TGTGCAGGGA	TGGGGGTTGT	GGCTGGATGG
223021	ATGGTACTTA	AGAAGTGCTC	CTGGGGTACT	AGAAATATTT	TATTTCTTGA	CTTGGATGTG
223081	TGTTTACTTT	GTGAATATTG	TACATTTATG	ATTTGTGCAC	GTTTATGAAT	GTAGAAAAATA
223141	AAACAGAAAAG	CAAATTCAAA	GTATCATCCT	TTTGAGAGCT	TCTGCTCTGA	CTTCGTTTTG
223201	ACCAATGGAG	CAGTTGGGAA	GGGGTCTTGG	TCCTTCGGTC	CCTTGCTTTT	TTTTTTTTTT
223261	TTTTTTTTTT	TAGACAGAGT	CTTACTCTGT	CGCCCGGGCT	GGAGTGCAGT	GGCTCGATCT
223321	TAGCTCACTG	AAAGCTTTGC	CTCCCGGGTT	CATGCCATTG	TCCTGCCTCA	GCCTCCCCAG
223381	TAGCTGGGAC	TACAGGCACC	TGCCACCATG	CCCGGCTAAT	TTTTTGATT	TTTTAGTAGA
223441	GACGGGGTTT	CACCATGTTA	GCCAGGATGG	TCTCGATCTC	CTGACCTCGT	GATCCGCCCA
223501	CCTGAGCCTC	CCAAAGTGCT	GGGATTACAG	GTGTGAGCCA	CCGCGCCCGG	CCCCTGGTCC

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223561	TCTGCTTTCA	TGTTCTTCTT	GGTCCTGTTT	CTCCTCCTCT	TTTGTGGAA	CTTCCAGTAT
223621	CAGAGCAGGA	AGGAAGGCAA	TGGGTCAATC	GATGCTGTCA	GCTTTTGGAT	CAAACCTGCA
223681	GTTCTCAAAC	AGCAAAATTA	ATGAGCTCAG	GCTTTGAAGA	AACCATGACC	CTGAAAGCAT
223741	CAGTTGCTTC	CAATTGCATC	AGTTGCCACG	GGTGATAAGA	ACAATGATGA	CTCAGAATGC
223801	CTAGGTTTTT	CCAGCAGCTT	CTCTGAGGTT	TTCCCAGCAG	CTTCTCTGAT	TGATTCTCTGA
223861	CAGATGACTT	CGGTGTGTCA	GACTTTTCAGG	GTATCTTTCC	TTATGTGATG	GTTTGAGGAA
223921	GAGTTACCAT	TCACATTCCT	AATGGCTTCA	GAATAGATGC	AATTGTGAAC	TGATAGGAAA
223981	CATTTCTAAT	TCATCTCCCC	TCCCCATCCC	TAAAGGATTG	TTTCTAACAA	TAGTCATGAA
224041	AATTAATTCA	CTTTTCTCAA	ATAGTTTATT	GTCATCTACC	TAATGATGAG	ATGACTTACT
224101	TTTTCTCCTT	GACTGTAA	TATTATGAAT	TATATTAATG	TATTTCTTAA	TGTTGAGCTT
224161	TCCCTTGAAT	ATTCTTTTGA	TGTACGACAG	AATTTGATTG	ACTAATAGTT	TATTTAGGAC
224221	TTTGGCTGAT	GTAATGATAT	ATGAGATTGG	CTCTGTATGC	ATACATGTGT	TTTGTGTATC
224281	TTTTTTGTGT	CTGGATATGG	AGCTTATGCT	GATTTCAAAA	ACAAGAAAGG	AGAACCTTCC
224341	TTTTTCCCCA	TTACTCTGAA	AAGATTGAC	TAGAATGGAA	TTTTTATAAT	TGCTGTTGTT
224401	ATTTGAAAGC	TTGAAAGCAT	TGGTTTGTAA	AAATCATGCA	GGCTGAAAGC	CATTTTGAGG
224461	AGACTTTGAT	AACCTTCTCA	ATTTCTTCTA	GTTACTGGTC	TTTTAAGGGG	TTTTATATTT
224521	TTCTTTGATC	AATTTTGACC	ATTTATGTTA	TCTTGGAGGA	TCATCTATTT	TACACACTAT
224581	TTAAAGTATA	TTTGCAAAAA	TTCAACTGTT	TTATCAGGCT	ATCTTTTTTA	TAATATATTC
224641	ATTTTATCTA	TATCTGAGGT	TTTAGCTTCT	TTGTACTTCT	GACCCAATTG	CATGTGTGCT
224701	TTCTTTCTCC	TTCATTAGAC	TACTTAGTCA	TTTACTAATT	TTAAGAATAG	CTTGTCTTTT
224761	ATTTATTTAC	TTATTTATTT	TTGAGACGGA	GTCTCACTCT	GTCACCCAGG	CTGGAGTGCA
224821	GTGGCGCGAT	CTCGGCTCAC	TGCAACCTCC	GCCTCCCGGG	TTCAAGTGAT	TCTCCTGCCT
224881	CAGACTCCCG	AGTAGCTGGG	ATTACAGTCA	TGCACCACCA	TGTCTGGCTA	ATTTCTGTAT
224941	TTTTAATAGA	GATGGGGTTT	TGCTATGTTG	GCCAAGCTGG	TCTCAAACCT	CTGACCTTAG
225001	ATGATCTACC	CACCTTGGCC	TCCCAAAGTG	CTGGGATTAC	AGGCATGAGC	CACCTGCGCC
225061	AGCCCTGCTT	GTCCTTTTAT	TTTATATTTG	ATTAGCTTTA	TCTTTTATCA	AGCTTATGTC
225121	CTATTTCCCT	TTGCTTTACT	TCATATAAAT	TTTGTTTTGG	ATAGTTTATT	TATTTTTCAT
225181	TTAATTATGA	AACAGGTTAA	AGCTTAGAGG	AAAATTGCTC	CTCTAAGTCC	AATTTTGTTG
225241	GCAATTACAA	TTTTGCTGTG	TTGTGCTCCC	AAATTCATTG	TTCTTTTAAT	GCTTTATTTT
225301	TCAAGTTAAT	AACCTATATA	TGAATAAAGT	GGCTGTGAC	TCTCAGCTTT	TTTTTTTTTT
225361	TTTTTTTTTT	GTAAGATACAG	GGATCTTGCT	GTGTGCTCA	GGCTGGTCTG	AAACTGCTGG
225421	CTTCAAGGGA	TCTCCTGCC	TTGGTCTCAC	AAAATGCTGG	GATGACAGAC	ATGAGACACC
225481	ATGCCTAGCC	ATGTCTCTCT	CCTTATATAT	AATAAGAAAA	CAGACACACT	GAGGCATCCT
225541	ATCATCTCAC	TCTTGGTTTC	ACTACTGTTT	TCTGGAAGTT	TTGCTCTGAC	CTTTTGCACT
225601	TAATGTATTA	ATTTTGCAAT	GAGTAGTTTC	CATAGAAGAA	TTATAGCATT	TGCAATCTGT
225661	TGGGTATTAT	ACTTTTCACT	GTTATTTGAA	CATAATTTGA	GGGCTGAAAC	CAAGATGAGG
225721	CAAGTGAGGT	GCCAGGAAG	CAATATTTAA	GGAGGCATCC	TTTCTTAGGC	TCATGCAAGA
225781	ACAGAATTGG	CACATGAGAG	TGAGTGCTTC	CTTAATTTTG	AGTGCTGGAC	ACTTCTTGCT
225841	CACCTAGCAT	ACCCCTGGAC	AATGAAGTGT	TTTTTGTGTT	GTTTTTTCAT	GTCCATCCTT
225901	TATCCTTCTT	CATCTCAAAA	CATTTCAATG	GAGTATTTT	TTGGAGCAGT	ACTTGGATGA
225961	GCCTCTGAGT	CCCACAGTAG	CTGAGAATTT	ATTTCATAGT	ACTCTTTATG	ATCACTGTGG
226021	AGCCTTAAAA	CATTGTAATA	TTAACTTAGC	TGGGAACAGA	AATTTTGTTT	CACAATTTGT
226081	CTTATTGAGA	ACAGTATTGA	CTTCTGCTA	GTCTCTTCTG	ATGTCCAATA	TGAGGAAGTC
226141	TAGTTAGCCA	GCTACTTTTT	GTAGGAGAGC	TATGTTTAGG	CTAGGTGCTA	TAGGATCTTC
226201	TTTATCCTGG	AATTCCTTCA	CCAAGATGTG	CCAAGGTGTT	AATCATTTTC	TCTTGCTTTT
226261	TGGCTGGTGG	TCTTAGAGTT	TCCTTCGATT	TTGTTTATT	TAGTGATTGT	CCTCAATTTG
226321	TTTTCTTTAC	TAAGAATCTC	TCTTCTATTT	ATCTGTATGG	TAAAACCTTG	TTGCCCATCT
226381	TTCTGGTTTC	TGCTGACTTT	CATTTTGGGA	CCTTTTACTT	TGCTTTCTCC	ATGGACTTTT
226441	TGGTAGTGGA	GGCAGGCAAA	CACCTTCCAA	AGTCTTTCTC	AATTTCCATC	AATTTCAACT
226501	TATTTCTTAA	AATTGCCTCA	GAATGTGCCT	ATGTCCACAA	TATCCCTCCT	TCCACTTTAG
226561	AAAGGAAAGG	CATCCACACT	TTATTTAGGT	GCAATGCCTG	AAGTGTAAC	ACTTCTGGT
226621	TGTCAACAAA	GGAGTACTTC	CAAATATTGG	TTTGGGGATA	ACCTGCTAAT	GATTAACACA
226681	TTACCTTGG	CTCTTGGTTT	GCCTGCTCCC	TCTTCTTTTA	TCTGCTGTGT	GTATTTTTTT
226741	TAATCACTGA	GAATATGCAC	AGTATTGTAT	GTTTTATTAT	AAGAGAGGAC	TGGCCAGAGT

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226801	GGGAATG TTC	TGAATTCAGA	ATAACTGAAG	CAGTACAGGA	TAGGAACTCA	TTCTTTCAAA
226861	TGAAGCTGGC	ATATTTTCCC	AGAGCACCAA	ATTTCAATAT	ATATTTAAAA	AAC TTGATAT
226921	GAATGATACA	ATAAAGTGGT	TAGAAC TTTT	ATTA AAAATAA	ACTTATGTCA	TGAAATACTT
226981	ATTCTAATTA	TAGTCACTCT	TCATCTTATT	TCATCTTATA	ACATGTTTAA	TGTTTTCTTT
227041	TATTTACAAA	ACAATTTATT	TTTTGATGAA	AAGTTTTAGA	AATCAAGTTA	AAAATATTCA
227101	AAGGAATGCC	TAAAGTTTTT	AAAATCTTTT	TACATGTTGT	ACAATCAAAA	GAGTCTGAAG
227161	ACCATTTAGC	TATCCAAATT	GTTTATTTTT	AAGCAGTATC	CCTTCTAATA	TTTACTATTT
227221	ATAATCCTTA	AAAATTTGCC	TTAGCACAGG	AGAATTGCTT	GAACCCAGGA	GACGGAGGTT
227281	GCAGTGAGCC	AACACAGTGC	CACTGCCCTC	CAGCCTCGGC	GACAGAGTGA	GACTCTGTCT
227341	CAAAAAA AAA	AAAAAAA AAA	AAAAAAA AG	GCCAAAAACA	AATAAACAAA	CAAAAAATC
227401	CGCCTTAACA	TTATTTGTTT	ATTA AAAACT	TTCTTTAATA	CTACTAGTTT	CCCTTTCTCT
227461	TCAGCCCAT	GTCATATTTT	GATTTTTATC	ACTTGCTTTG	TAGGACATAT	GAGGTTTTTG
227521	TTTTTTTTTT	TTTTTGGA GA	TGCAGTCTCC	CTCTGTTGCC	CGTGCTGGAG	TGCAATGGCG
227581	CAATCTTGGC	TCACTGCAAC	CTCTGCCTCC	TGGGTTCAAG	CAATTCTCCT	GCCTCAGCCT
227641	TCCAAGTAGC	TGGGATTACA	GGCACCCACT	ACCACGCCTG	GCTAATTTTT	GTATTTCTGG
227701	TAGAGACGGG	GTTTCACCAT	GTTGGCCAGG	CTGGTCTCGA	ACTCCTGACC	TCAAGTGATC
227761	CACAATCCTT	GGCCTCCCAA	AGTGCTATGA	TTACAAGCAT	GAGCCACCTG	CCCAGCCAGA
227821	ATATATGTTT	ATTTTGAGTC	CTTTAACAAA	GTCATAAGAA	TTTTAGGAAT	TCAGTTACTT
227881	TCTTGAGAAA	ATCTCTGAAA	AGATGCCAAT	AATTTGTAGC	CAATTATATT	GATTTCTCTT
227941	TTTCATATTG	AGAATTGTTT	TTTAAAAAGT	TGTATGTGT	GAAGATTTTT	GCACTGTAGT
228001	TAAAGAAACC	ACCTGTGTGT	TGGTTAAGCC	ATAAGTACAT	GTATTCAAAT	AAATTGAGGT
228061	GGGGTTACTC	TGAGAATCAA	AGGAAAACCT	GAAGAAACAG	GCAGCCTCAA	AAGGTCTTAG
228121	CTGTAGCAAC	TTGCTCCATT	GTTGAAATAA	ATAGGCTTGA	ACTTGTATTT	TCCCTCTACT
228181	CAACATTTAA	GGTCTCAGAA	GATAATATAA	TTGGTGAAAT	TTAAGTAAAG	TGCTCACTCT
228241	TTTGCTTTAA	CAAACCTTAG	AGAGCTGGTA	GGCAGAGCCT	CAACAGACCG	TTTTAGCTTC
228301	CAAGGGGAGT	TCAGGACACC	ATGATTCACG	ACCACAATAC	ATCACACATA	ATTGAGAAAA
228361	GATAGTTCCA	CCAAATAAAG	TTGAAATGCT	GACAAGAAGG	GGTAAGAAAT	CTTGGAATAA
228421	AGTTTATATA	AAAATTTATT	TTTTCTTTTT	TATGTATTATG	GAATAGGACC	AGTTCTACTT
228481	AAGCCACCCA	TTTGCCAAAA	TAAAGTGAGA	ATCGTTTCTT	TTGGGGACTC	CTCTTTGTAG
228541	CTCCAAGTGC	CACTAACAAAT	TCTTAGGACC	TGAGCTATAA	GCCAGGTGAT	TTCAAGTTAAT
228601	ATGATCAATT	ATTTCAATTA	AATGGCTCTA	ATGTGCAGAG	GGAACGGAGC	CCATCAGCAT
228661	TCCCTGCAGG	GAACTGCAGT	GGCTTTTATC	AAC TTGAACA	GCTAGCTTTC	AACTGTTTTG
228721	AAATCACTTT	CAGGGTGGTC	ATGTAGTTGC	TTTTTTGAAA	TCAGAAGATG	ATTCTGCCTC
228781	TTTTAATATG	TGACTCCTCA	GATTCAGAAA	GTGCTCGCTA	GTCTTAAGAG	TGAATTACCC
228841	TCAGTGGTCC	AGCGCTTATG	AACCCACATC	TAACCTATC	CCCTGGGGGA	ACTATCAGAG
228901	AAATTGGTGC	CATGGACATA	AGAGGAAGGC	ACAGTGAAGC	AGAGAGCCCC	GCATGATGAA
228961	AATCAGTGGA	CAGCATCATT	ATTTACAAC T	TTGTAATCAC	CCAGGAGCAT	GAAAATCCAG
229021	GCCAATCTGG	CACCATGAGC	TCTAATTTTT	GTTGGAGTTC	TTGGAACCGA	TTCTGATGAA
229081	TGACTGTTTA	GCCATTTTAG	AGTGTGGCAT	ACGTGGCTGC	TGGCATA CAG	AGGTTGGATG
229141	TAAACGGGCC	TTTGCCCTCT	CTTATGAACA	TAGACAGGAA	CTAAACTGTG	TCACATAGGT
229201	TCCAAATGGT	GGCCTGAATA	CTATTTACAA	CTAAGGTACA	ATGAAATTGA	GTAAGTCTTT
229261	TCCTCTTTTG	CAGATACCAT	CATTATTTCAT	ATATTTCTTC	AAAGTTAACT	ATTTGTATTT
229321	GGTAATTTTT	AATAGAAATG	TAATAATTGC	TTCTCAAGTT	TAGTCTTTAG	TCTTAAGGTT
229381	GATGCTCTCC	ATGTCTTCC	AAAAAAAGGT	ATGTTGCTTT	TATTATATCC	TCGCCCTCAG
229441	ATGGGATTAT	TCCATTTTGT	TCTTTGTTAA	TATATACTTT	GAGCCACTTT	TTTTGTGGCT
229501	CTGGGTGAGA	TGCTATAGGT	ACAATGACAA	GTGATACGTG	TGTTGTCCCT	GTCACAAAAG
229561	TGGATAGCCT	AAGTGGTGAC	TTTTACCTCC	ACTCCAAATA	TATGTATCAC	ACACCAGCCG
229621	TATGCCAGGC	ACCACTCTAG	GTGCTAGGGA	TACAGCAGTA	AACAGACAAA	TGCAACCCCT
229681	GCCCATGTGA	AAGAGAATAA	GACAATAAAT	AAGTAAAGTG	CATGTTATAT	GGAGGTGGCA
229741	AATGCTAAAA	AGAAAAATTA	AGCAGGCAAG	AGGACTCATT	GAAAAGATGA	CATTTGGGTA
229801	AAAGCCCATG	TATATATGTT	CTATTGGTTT	TATTTCTCTG	GAGAGCCCTG	ACTAATACAC
229861	AATGACTTTG	AGAAGTTACT	GGCTTTTGAT	TTATCACACT	ATTCCGAGTG	CTGAGAGCCT
229921	TCTTAGTGTG	TATTCAGTGT	TTTAAGAGAG	CTTGTGGATG	AATAATAAAT	AGGACAAAAT
229981	TTATCCAAAC	TTAAGCCTTG	CTTTAGGTAA	AAGGGCTCCT	CTTACAAGGT	AGAAGGTTAT

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230041 TATTTGGCAT TTAATCCAA CTGAAGACTA ATAAGACTAA TTAATTAAAA GTTTTTAAAT
230101 CACAACTGGG TGCAAAATAA ATGGAAGTGC CATGCTCGCC AAGTGTGCAT GAGTGGTGTG
230161 CATGGGAGAC AGCACGAAGC TAATCCCACT CATCTTGCAG GTTGCTCCAT TTTTCTCCTA
230221 AAATCAGTAA GACAGAAGCT GGTGAGATTA TCAAGAGCCC TAGTTAAACA CAGCAGTAGC
230281 ATTTGGAAGG GGTGCTCTC ATTAGGCAGT GCCTGACCAC AACAAGAGAT GAACAAGCCC
230341 TGTATCTGAA GCCATCATGC CTAGTTATGG TCCCCCACTG TTCATGATGC CTGAAAGGGA
230401 GGCCCCCTGC ACCCTAGAAA GCTGGGTGGG TTCTACTGTC TGCTTTACTG CTAAAAACCC
230461 TCTTCTTTGG ATCTGGACTT TACCTCTATC TGATTTTTTT TTCTAATATA TGATTTGGCA
230521 CTGAGTCTGT CACTGCTGCT AACTCAGCAG TTCTAGGGTC ATTGCCCCAT TGCCTCACAG
230581 AAAGAATTTT ATAGCTTCCA GCATCCTCTC TCCTTCATTA TACTTTGATT TCAGCATTGC
230641 TATTTTTTCT CTGGGTGTT GCAGCTCTCT CTCTCCTTCC CATGCTTGT TGGTTTTCTG
230701 CTAACCTCTG CTTTTTTTCT TTTTTTTTTT TTGAGACGGA GTCTCGTTCT GTCACCCAGG
230761 CTGGAGTGCA GTGGCACAAT CTCGGCTCAC TGCAACCTCC GCCTCCCGGG TTCAAGCTAT
230821 TCTCCTGCCT CAGCCTCCCA AGTAGCTGGG ACTACAGGCG CTCACCACTA TGCCCCACTA
230881 ATTTTGTAT TTTTAGTATT GCTGTCATCA ATCCACATGT CCAGAAGCAC CTAGAAACTC
230941 TAATTCCTTG TAGGTATCAA ACCCTAGGAC TCTTTCCTCT AATCACAATA TATAATCCCT
231001 GATTTCCAAA CACGGTCTTT TCATATACAT TTTCCACTGT ACATACTTTC TGACCTGGAA
231061 AGCTCTTACA CAAACACGCC CTCCCCTAGG AAGCCTTTAT AAATGTTCCC AGGAAGAATC
231121 AGTCACCCAA CAGTGTCTT GTCACATCTT AGGTTCTACA CCTTTATTG TTCTATCTGA
231181 ATGTAATCTC CCAGAGGGTG TTATCATCTT TTTTTTTGAG ATGGAATCTT GCTTTGCTGC
231241 CCAGGCTGGA GTGCAGTGGC ATGATCTCGG CTCACAGCAA CCTCCACCTC CTGGGTTCAA
231301 GTGATTCTCC TGCCTCAGCC TCCTGAGTAG CTGGGATTAC AGACGTGTGT CACCACACCT
231361 GGCTAATTTT TGTATTTTTA GTAGAGACAG GGTTTCACCG TGTTGGCAAG GCTTTCCTCG
231421 AACTCCCAA CTCAGGTGAT CCACCCGCCT CAGCCTCCCA AAGTGTCTGG ATTACAGGTG
231481 TGAGCCACCA TGTCCAGCCC CATCTTTTTT TTTTAGTTTA GTTCTTAACA AATAGTCTGA
231541 CACAAAGTGG ATATAACAAT ATTTTGAATT ATGAATAACT AAATGAATAT TTCCAGATTT
231601 CCTGGTGCTC TCAAAGTTT ATGTTACAAA AGAAAAACAA GTCTAAAATA CCTGCCTCAA
231661 GTTTTTATCT GTACTATGAT TTCAAACCAA ATAAAAACA GGTGGGGTAA AAACCTGAAAC
231721 AGGAAATACA TATAACTGAA AAATTTTGGT ATGTTAGTAT GATAATACTA GGTCAATTTT
231781 CCTGTTTCCC CAACTTCATT TTCTATAGCA ATAAAAAGAA ACAAGTAAAT GTATATTAAT
231841 TTAATTTAAA AGAAGTAGTC TACCATCTCT TCTGTTAAAA AGAAAAAGT ATTTTAAAAA
231901 ATTATCTCTG GAAGGATACA CAGGGAACAT TGCTCTGGTT TCTTCCAAGA GAGAAATGAG
231961 GAACTAGAGA GCATGGCCAA GTGGGGTTTT GCTTTTGT TTGTTTGTCT ATCTGTTAGC
232021 TTTTATTAT TTTCTTTTGT AGGTTTGAAT TTCAAACCAC ATAAATCTGT TACATGCTCA
232081 TAATAATAAG TTTAAAATAA AACTTTTGGC TGGGTGCAAT GACTTACACC TGTAATCCCA
232141 GCGCTTTGGG AAGCAGAGGT GGGAGGATAC TTGAGGCCAG GAATTTGAGA TCAGCCTGGG
232201 CAACATAGTG AGACCCTGCC TCTGTAGAAA TAAACAAAAA TTAGCTGGAT ATGGTGGTGC
232261 ATGCTTGATC TCCTAGCTAC TTGGGAGGTT GAGGCAGGAG GATCCTTTGA GTCCAGGAGT
232321 TTGAGGCTGC AGTGAGCTAT AATCACCAC TGCATATAG CATGGGCAAT AAGGTGAGAA
232381 CTTGTCTCAA AAAAAAAAAA AGGGGGGGG AAACAAATAA ATAAATATAA ACAAACCTT
232441 TGTTTCAAAA TATGTAATAT TTAGCACTAA AGAATCTGA ATTGTAGAGC TAAAAAGTAC
232501 TTAAGTTA ATAATTATTG TCTCCTTTAA AAGAATTGTT ATCAAAGTAT AATTTTATC
232561 CAGAAAATCA TCCATATCAG CAAGCTAAAC TTTCTCAAAA TGACATATCC ATGTAATTAG
232621 CTCCCAGGTA ATTAGCAGGC AGCCTCTACT CAGGTTGAGT ATTCCTAATC TAAAAATTGG
232681 AAATTCAAA TGCTCCAAA TCGGCAACTT TTTGAATGCT AACATGATTC TCAAAGGAGT
232741 GCTCATGGAA TATTCAGAT TTTGGATTTT TGGATTTGAG ATACTCAGTA TAATGCAAAC
232801 ATTCCAAATC TGAAAAAATC TGAAATACTT CTGGTTCTAA GCATAAGGGA TACTCAACGT
232861 GTGTTAGCTA ATTAGACCCT TCATGGTCTC TTCTAGACCT CAGCTTCTTC AAGGTAACCT
232921 CTATCCTCAC TTCTAATAGC ATGAACTTTT CTGTTTGA TAATTTGGA TTTTCAGGAA
232981 AGTTGCAAAG ATAGTACAAA GACAGTACAG GAGAGTTCCC ATATATCTTT CACCTAGCTT
233041 TCCCCATTG TTAGGATTTT ACATTATTAT GATACATTTG TCAAATATAA GCAACTCACA
233101 TTGATACATG AAACCTTATT AACCAACCC TAGACTTTAT GTGGATTTCA CCACTGTTTC
233161 CACTAATGTT TTCTTTCTGT TCCAAGGTCC AATCTGGAAT ACCCACTGC ATTTTCTTGT
233221 CATATCTCCC TAGTCTTTTT TTGTCTGTGA CAATGTCTCA GTCTTTTCTT GCTTTTCATG

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233281	ACCTTAACAG	TCCTGAAGAT	CATTTGCTTT	TTTTTCATAA	TTACACCGGA	GTTATAGATT
233341	TTTTGAAATA	ATACCACAAG	GGCAAAGGGC	CCTTCTTGTC	ACATCATTTT	AGGGAGAACA
233401	TGATATCCAC	ATGACATCAC	TGATATTAAC	CTTCATCATG	TGGTTTAGGT	AATGTTTCAG
233461	GTTTCTCTAC	TGCAAAGTGA	TTTTTTTCCC	TTAATTTAGC	CCACCTGAAC	TTATCAATTT
233521	TGTTTTCTTC	CATGACTAAT	ACTTTTGTTA	TTATAGCTAA	AACTTCATTG	GGGCCAAATC
233581	TTAGATCATG	TAAATTTTCT	TCTATATTTT	ATTCTAAAAG	CTTGTAATGT	TTGATACATT
233641	CTAAAAGATG	TAATGTTTGA	TACATTACAT	CTAGTCCTTT	GATTTATTTT	TAGTTACTTT
233701	TGTATAAGGT	GTGAGAGATG	TCTCCAGTTT	CACCTTTATTA	ACACATTGTG	GTGTTCCAGT
233761	ACTATTGTGT	GCTAAGACTA	TCTTTTTTCC	ATTGATTACC	TTTGCCTTAG	TTGGCAATAT
233821	TTTTGTGGT	TTATTTCTAG	ACTGTTTATC	TCATTCCACT	GATTTGTGTC	TATCTTTTGT
233881	ACAAAAGTGT	TGATTACAGT	AAGCTTTGAA	ATAGTTCATT	TTTTGTGTCA	ACTTGACTGA
233941	GTCAGGGGAT	AACCAGCTAT	CTGGTTAAAC	ATTATTTCTG	GCTGTGTTTG	TGAGCGTGTT
234001	TCTGGATGAG	ATTAGCCTTT	GAATAGGTGA	TCCTAGTAAA	GTAAACTGTC	TTTCCAGTGT
234061	TGGATGGCAT	TATGCCACCT	GATATTCAGG	GTCTGAATAG	AAGAAAAGGC	AGAGGAAGGG
234121	GGAATTTGGG	CCTTTTTTTC	TGCCTCACTG	CTTGAGCTGG	GACATCTCAT	CTGGTCTCCT
234181	GCTCTTGAAC	TGGGATTTAC	ATCATCAGTT	CCTCTGGTTC	TCAGGCCCTC	AGATTCAGAC
234241	TGAATCATAC	CACCAGCTTT	CCTGGGTCTC	CAGCTTGCAG	ATTACAGATC	ATGGGACTCC
234301	TCATCTTCCA	TAAATGCATG	AGCCAAATCA	GTCTATGTCC	TTGAAAAGT	CCCCACTGCA
234361	GATTAAGGCT	TTTTTCCACT	AGGTGAAATA	AAGAAGCTTG	TTAGACAGAT	TTCCCTTCAT
234421	CCAGTGCCCT	CTCCTCTTTA	AGTTACAACA	CATTGGCTAC	ACCTAAGTGC	AGGGGTGGGG
234481	ATGAGGGTAT	AGTCCTCTTG	TTTGCTGAGA	AGAGAACTGT	ATTGGGAAAG	CTCTAGAAGT
234541	GTTTGATACA	TACATAAACA	AGGCATGGTT	TTTGCACTTA	ATTTACATT	ACATTTTTC
234601	CAGAAAAAAA	GGAATGTATA	GGCATCACGT	AACTGTACTA	GCTGGAGTCA	TTCTTCCTGA
234661	TTATCAAAGG	TAAACAGTTA	TTAATCCTAT	ACCAAGATGT	CAAGGAGAAG	TACTTTTGGA
234721	ACACAAGGAA	TTCTCTGGGA	GTCTTACTA	CTCTCAAGCC	CAGTGAAAAA	GTTAATGAAA
234781	AACTATAGTA	CCTTCCTATA	AGCTGGATGA	CTAATTACCA	GGCTCATTTA	GGAATTTGCC
234841	TTACCAAGTA	AAACATAAGG	GCAGCTGAGG	TGCTGACTGA	AGACAAATGG	AGCATAGAAT
234901	AAGAGTAGTA	AAGAATGCCA	AAAATGCTGT	CATGTATCCA	TTGACAAAAG	GAGCTATAAA
234961	GCCTTTAGGT	ATTTTCACAC	TTGCTCTGTT	ACGTAAATGT	ATGTGTGTGT	GTGTGTGTGT
235021	GTGTGTGTGT	GTG				

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1 CACACACACA CACACACACA CACACACACA CACAAATGAG GTATATAAAG GGTCTCCTAA
61 AATGTCATCT GATATTTGTT ATTTTCATATT CTCAGATTTT TAATCCATTT AGGTAGGTCT
121 ATTTTAGATA GCCTTGTCTG AAACAGAGCT GGGACCTGAT GAGTGAAAAT GAGCTCACCA
181 GAAGAAAAAT CAAACAGGCA TTTCAGAGAT TGAGGCCAAG AAGTTAAATG TCTTAAATGG
241 GCAGAGCTTA GCTGCTTGAT GTGAAAAGAG ACCAGCGTGG CTGGAACAGC AAAGGAGAAC
301 AGCAGAAGAG GTGAACAGAG GCCAGAGATG GTCACTGAGT GGGCCCTTAA GTCATGGTAA
361 GGAGTATGGA GAATGAATTA TTGCATGTAT TGAATATGTA GGTGACGTGA CTCACAGATA
421 CTTTGGATTT GTAGAGATGA AGGAAATGTA GCAAGTGACA CTCTTAGAAT GTTGATTTGA
481 GTAAATGGTA GTGTCAGTTA TTGAACTGGG GAGAACTGGA AGGGATAACA GGCTTAAGGA
541 GCACGTTTAT TCCTGTGTCT TGGAAAGTGT TAGGGTGAAA GACCTATTAG AGTTCATAAT
601 GGAGATGTCA AGTGAAAATG TGGCTACACA CATTTCGATT TCAGAAAAA GGTCAAGCTG
661 GAGATGTAAA ATTGGAAGTT TACTGCATAT AGATAGTCTT TGGAAACCGTA GTATTGTGA
721 AGCCATTAAT GAGACAGAAC AAAGACTAGG GACCAGAGCC AAGCTCCAAG TTTCTAAAAT
781 TTAGAGGATA GTATAGTCTG GTCATTTTGA GGTGAATACT TAATAACAGA ACAATTTGCT
841 GAAGTGTAAA TTTAGAGCCC TACACTTTTA GCTCTGACTA TTAACGAATA CAGGAAAGAA
901 TGGATATGGT TATCTGCCTG GTGTCTGTGA AATAATTTAA GCCAGGAAGA GATCCTCACC
961 AGAACTGAC TATGCTGGCA ACTTGGATCT TAGATTTCCA GCCTGCAGAA TTGTTAGAAA
1021 ATAAATGTCT ATCGTTTAAG CCACCAGTCT GTAGTATTTT GTTATGGCAG TCCAAGCTGA
1081 CTAAGTTTTG GTACCCAGGC GTGGGATGCT GCAACAACAA ATACCTAAAC ATGGGGAAGT
1141 GGCTTTGGAA ATTGGTGATG GGTAAAGGCT GGAAGAGTTT GAGGTTTATA CTAGAAAAAG
1201 CCAATTGTGA AGGGACTATT GAAAGAAATA TGGACATTAA AGGCAATTCT GGCAAGGCT
1261 CAGAAAGGAA GAGAGCTGGA CAGAAAGCTT CCATTTTCAT AGAAACTTAG ATTTATAACG
1321 ATCATGGATA GAATATTAAA TATGCTGGTT AAAATATGGA CTTTAGGCCA GGCGTGGTGG
1381 CTCACGCTG TAATCTCAGC ACTTTGGGAG GCTGAGGGCA CAGATCACGA GGTGCGGAGT
1441 TTGAGACCAG CCTGGCCAAT ATGGCGAAAC CTTGTCTCTA CTAAAAATAC AAAAATTAGC
1501 TGGGCTGGT GATGTGCTTC TGTGTCTCCA GCTACTCGGG AGGCTGAGGC TGAAGAATCG
1561 CTTAAACCCG GGGGGTGGAG GTTGCAGTGA CCCAAGATCA CACCACTGCA CTCCAGCCTG
1621 GGATACAGAG CAGGACTCCA CTCCCCCGC CACACACACA CAAAAAATAT ATATATATGG
1681 ACATTAAAGT CAACTCTTGT GAGGTCTCAG ATGAAAATGA GGGACAGGTT ATTTGAAACT
1741 GTAGAAATCA CTGTTCTTGT TACAATGTGT CAAGAACTTG GCTGAATTAC GTGTAGTGT
1801 TTAAGTGAAG GAACCTATAA GCAGTAAAC TGGATATTTA CCAGAAGAGA TGTCTAAGCA
1861 AAGTATTGAA GGTGTGATTT AGGTCTCTCT TACTGCTTAA AGTGAAATGT GAGAGGAAAG
1921 AGCCGAAATA AAGAAGGAAT TTTTAAGCAA AACACAATCA GAACTTGGAG ATTTGGGATA
1981 GATTTCTCAA TCTATATTGT AAAAATTGAG AAAGTTTTTC TTGAAGAGGT ATGGTTGAAC
2041 AATGTTTTCT TTTTCTTTT TTTTCTTGGT TTTATTTTAA TTTTATGTT TTTTGAGACA
2101 GGGTCTGGCT ATGTCATCCA GGCTGGAGTG CAGTGGCACA ATCTCAGTTC AGTGCAACCT
2161 TTGCCTTCAG GCTCAAGCAA TCCTCCACC TCAGCCTCCT AAGTAGCTGG GACTACATGT
2221 ATGCACCACC ACACCCTGGC TAATTTTTTG TTGTTGTTTA TAGAGATGGG GTTTTGACAT
2281 GTTGCTTAGG CTGGTCTCTA ACTCCTGAGC TCAAGTGATC TGCCCTCCTC AGTCTCCCAA
2341 AGTGTGGGA TTACAGGCGT GAAACACTGA GCCTAGCCTG AACAACCATT TGATAAAGAG
2401 ATAATGGGTG TGACCAAGG ATTTAATCAG CCATCTCAGC AGAAGCCAGG AAGAGAGATG
2461 GGATTATTCC AGCAGAGACA CTGCCAATT AAACCTAACGT AGGCAGAGAA AACAGAAAGG
2521 AACAAAGGAA GGTGTGCGAC TTTTGAATT CTATAGAACA GGATCATAGA GCTACCTGGC
2581 TGTCAATGTG TACTATTCTT TAAGAAAAGG AAAGACTGAC CCACCAAAGG CAACCTACAA
2641 GATCACTAGG GCTGACTCTT TTTTGTGTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCAGGTT CAAGGGATTCT
2761 TCTTGCTTAA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCCGAGT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAACTCCT GACCTCCAGT GATCCATTCT CATTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC
3121 CCACCAAAC TAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241 TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTTGG ACTTGATTAG GACACATTAC
3301 ACCTTCCTTC TTTCCTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361 CATTGTACCT TAGAAGCATG TAACATTTCT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421 TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTTAG ATGATTTTTT
3481 AGATGACACT TTGAACTTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541 TGGGATGGAA TAATTTTTTT TTTTTTTTTG AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601 GAGTGCACTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATCTT
3661 CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721 TTTTTTTTAT TTTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAACGGT CTCGATCTCT
3781 TGACCTTCTG ATCCGCCTGC CTTGGCTTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC
3841 CATGCCCGGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901 GGTCAAGGAC AGAATGTTAT GGACTAAACT GTGTCCCCCA AAATTCATTT ATTAACCC
3961 TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AACTAAAGA
4021 TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGAT GAGACACTTA
4081 GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATACA AACACACAGT GAGATGGCAG
4141 CCATCTGTTA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201 TTCCAGGCTC CAAAACCTGTG AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGAAC
4261 AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTATGGCA GCCTGAGTAG
4321 GCTAAGACAA TGAAGGATGT GGTAAACTT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381 AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441 CATGTTGGCT CCTTTACTCT GCCCAAACCTA CAACTCAAAC AAACAACCTGT AATATAATAA
4501 CATCCAATGA AGTTCTGACA TTTCTTCAAC ATGAGTACAG TAATTCAATG CCAGAGAATT
4561 CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621 TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681 GCATTTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741 CAACATGGTG AAACCTGTCT TCTACTATAA ATATAAAAT TAGCTGGGTG TGGTGGTGCA
4801 TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861 GGTGCAATG AGTGGAATC GCACAGTAC ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921 AAATACATAA AATAGATTTA TCAGTTTATC AATAATATAG TTTTCTTTTC TAGGTGTAAA
4981 TATAGGTAAT GACTGTCTCT TAGTACATTT TCTCATGATG CTCCTCTTAC TTGGTTTGGT
5041 ACAATATTAA GTATTGAAAT AAAATAGAGA ATCCTGTCGC TACACATGAG CACTTATTCC
5101 ATTTGCTCAT CTCCAATATG CACGGGAAAT TCTCAAATTG CTAATAATCT TGTAACACAC
5161 ATGCATTATA TTCAACAGGA ATATATAAAT TTATAATTAT AATTTAGGAT CAACAGATGA
5221 CAAACCTTTA GAAGGTTTGT ATTTAACCTT AAAATATAAT TTTTAAAAA TTGGTTATAA
5281 AATTTCTAAT ACTTTCTTTT TTGTGACCTC AAGGGGAAAA TATAATTCTT ATAAAAGTTC
5341 AAATGATTTA CAGAATACAA AAAGTGAATA GAGATGATGA ATGAATTAAA GGAAAGGATA
5401 TTGCTACATA GATTTGGAAC TTTAAAAAGG GAAATTACGA TTGTTGATTT TGTGTTAAAC
5461 TGATCTGCTT TGTTCAAGAT ACCTTATGTA CCAAAAAATG ATTTTATCTC AGCCTCATAT
5521 CTCAGTAAAT TCCTGAGACA AACTTTAGTC CCTGGTGCCC AGGTGCCTTT GGTAATTGGG
5581 AGACCTCTAG GTTTAGCATC CTCATCCACT CGCCCCAATT TAAATAGTCC TCCCCAGGGC
5641 CATTCAAGCA AGGGAGATGA AAACCTGCTC AAGAGTTGGA ATCCAATTGA AGCTACCGAA
5701 ATTCATTGCT CAATAGATAA TTTCCCTGG AAGTAACTAG GGCTTTTGAA TATAATAGTG
5761 GGCAATTCAA AGTAGAAGGT AAAGTATTTT GGAGATGAGG AGACAGGACA GAGCTACGAG
5821 GAATGTCCTT TGCTCAGGGA CTAGGCTCTT AGCAGTACCT CTTAGGTAAG AACTGGTTAA
5881 CTGGCACCTT CTGTGTTTCT CTGAAGCTCC CTTTGCTTAG CTTAGAGCTA CTTAGCAGTA
5941 CCTCTTAGGT AAGAACTGGT TAACCTGACAC CTTCTATGTG TCTGAAGCTC CCAGAACAAA
6001 CTGCCAATGA AATTTGGATT TTTGGAATAT AGTTTCTTTT TTGTTGTTAC TTTTGTGTTT
6061 GTTGTTTTTT TTTGAGAGTC TCACTCTCAC TGCAACCTCC CCCTCCTATA TTCAAGTGAT
6121 TCTCTGCTCT CAGCCTCCCG AGTAGCTGGG ACTACAGGCG TGCACTAGCA TGCCAGCTA
6181 ATTTTGTAT TTTTGTAGTAG AGATGGGGTT GGTTTTTTTT TGAGACAGAG TTCACTTTG
6241 TCGCCAGGC TGGAGTGCAG TGGCACGATC TTGGCTCACT ACAACCTCCA CCTCCCGGGG
6301 TTCAAGTGAT TCTTCTGCCT CAGTCTCCTG AGTAGCTGGG ACTACAGGCG CCTACAGGTG
6361 AACACGCCA CACCTGACTA ATTTGTGTAG TTTTATTAGA GATGGGGTTT CGCCATGTTG
6421 GCCAGGCTGG TCTCAAACCTC CTGACCTCAG GTGATCTACC CACCTCAGCC TCCCCAAGTG

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6481 CTGGGATTAC AGATGTGAGA CACCAGATCA GCCTCAGAAG ACATTTTCTA TTGGAAAGAG
 6541 AAAACACTAT TAGCAACCTA TTAGTCTAAT ATTTAATACT TAATGTCTTC CTTAGTAATA
 6601 AACCAACTCT CTACAACAAA GTGCTTCCTG GCTGCCTAGT CATTGATTCA TTCAGTTCAA
 6661 CATTTTCTCA ATGCCCAACA GCCAAGTGTC TCCTGTATGC CAAGTTCTAT GCTGATTATC
 6721 AGTATTTGAA TAAGAGGGGG TCTACATCTT AAGTACTGCT TAAGATGAAA GCCTCTAGGT
 6781 TAACAACTT AACACAATGT ATCATTCACCT ACTAAATAGA CCGAATACAA AATCTTGTTA
 6841 TTGGAGCCCA GAGAGAAGAA TTGAAATTCA AGTTTCTCT CTCTCCTTTT CTCACCTACC
 6901 ACAATAAGTC AGTTGCACCA AGTCTGTAG CTCTTTACTG AGCCATGTTT TCACGTGTCC
 6961 CTTTGTTTTA TTTGCCACAC CCTAAATAAA AATTGTACTG GCTTTTTTTC CCTGGGTTTA
 7021 CAGTATTAAT ACATTGTCAA GATTACCTC TTCGTGTAGA TTCCCTGGGG AAAATTACCT
 7081 TTCCTCCTTC CCTTAAATTC TTCAGAGGTT AGAAAGCCAT TAGTAACATT CTGGTATGTG
 7141 GACAAAGTTT ACCCATTATG TATGGATGTT TTAATCTTTC CATTTTCTG ACAATAATCT
 7201 CTTAAGGAGG TGTGGTTATA GAATAGTCAG CTGTTATAAG TACTGTTTTT CTGGCCTTAC
 7261 AACTTAAAT CTTTAAGCTG TTTCTTAGTT GGATTAAATG AATTAACATA CTGGAAGCTC ATGAAATGTG
 7321 AACCTATCTC TTAGATTGTT GGATTAAATG AATTAACATA CTGGAAGCTC ATGAAATGTG
 7381 CCTGGCACAC AGTAGTGCCT AATAAACCAT CTCTCTTATT CAGCCTGTTT TCTGATTCA
 7441 GAATCTACAC TTGCTGAGCC AGGTTCTTTT CATTTCAAGG TGAGCAAAAG CATACAAGGA
 7501 AGAGATGGAG GTAGGAAGAG ATTAAGCCCT AGGCCAAGGG AGCTGGAATC AAAGGCAATT
 7561 TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA TTCTAACCTT AGGATCGAAA
 7621 TTCTCGGACA TACAGGAAAT GCTGGGGGGG GGAAAATCCG GTCTTCTCAG CCCAAGAGCC
 7681 ATGTGAAACC AGACCTTCAA ATCTGATGAT TCTCAGCCCA GCTGCCCAT TAGAATCGTTG
 7741 TAATTTAAAA ATACCTCGG AAAATCTTAA TATGTGGCTA TCAAAGGTGA TCATTGCTT
 7801 TTATGCCACT TTGTTTTCAC CCAATGGGA CATCCAACCC TTTTCTTTG AGAGTAGTTG
 7861 TAGGGAAAGG AGGGGGTGGA GGGAGGGAAG AGCGGAAAAG GCTGGATCCG CCCCGAGCCG
 7921 GTGTCAAGTAT CTGGGAAGTG GGAGGCGCGT CAGCAGTAAA CAGCTTCTGC TAGGATTATT
 7981 ATCTCCTGCC ACACACTCGG ATTTGAAGGC TCCAAACGAA ACAATGCAAA ACGCTTCAGT
 8041 GGAGTTCCAG AAGCGTTAGA CTAAACGACT GGGTCTGTTT GGCCAGTCTG AGCAGCTGGG
 8101 CGCAGATGCA TAGGCAAGAC TTAGCCCGCC CGGCTGTAAT CCCAGCACTT TGGTAGGCAG
 8161 AAGCAGAAAC CGGCCGGCGG CGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGTAGGCAG
 8221 AGGCTGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CCGGCTAAC TGGTGAAGT
 8281 CCGTTTCTAC TGGTGGCGGG CGCTTGTAAAT CCCATCTACT AGGGAGGCTG AGGCCGGAGA
 8341 GTCGTCTGAA CCCGGGAGGC GGAGTTTGTA TGCAGTGAGC CGAGATCGCG CCACTGCATT
 8401 CCAGCTTGGG CAACAGGAGC AAAACTCCGT TTCAAAAAAG CAAGCAAACA AACAAAAAAA
 8461 TGCAGAAACC GAGATCCGGA AGAAAACCTC GGCGAGATTC ACAGAATCCA GGAAAATAGG
 8521 TCTCTAGAAA TTTGTCCATG GTCCCAGATC TCCATTTCTT GTGGGTGGGG CAGCTGTTAC
 8581 CAGATCCCTA GAAGCAAAGG TTTTTTGGG GGACCGTGTC TCACTGTTGC CCAGGCTGGA
 8641 GGGCAGTGGC ACGATCTCGG CTTACTACAA CCTCCGCCTC CCAGGCTCAA GCGACTCTCC
 8701 TGCCTCAGCT TCAAGAGTAG CTGGGAGTAC AAGGTATGTG CCACCACGCC CAACTTATTT
 8761 TTTTATTTAT TATTTTTATT TAGTAGAGAG GTGTTTCAAC ATGTTGGCCA GGTAGTGTG
 8821 GAAGTCGTGA CCTCAGGTGA TCAGCCCCCT CGGCCTCCCA AAGTGGTAGG ATTAGAGGGG
 8881 TGAGCAGAAA GCAAAGGTTT TTGAGTGGCC ACAGGCCCA CTCTATTTCC TTTCTGCCT
 8941 GTAATGGCAA CCTAGACGCT TGAGCTTCTT AAAATACAAG AGTAAGTTGC ATGTCAGGCA
 9001 CCGTTCTACA TTAGGGACAT TAGTCTGTTT TACAGACACC TTTCAACTCC CTGGTTAACT
 9061 TTTAGGTAAT ATACTCTGCA CTTTAGCAGG AATGGAACCT ATAACCTCTA CAGAATTAGG
 9121 AAAGTGAGGC TGCCTACAGC CTAAATTGAG AAAAAAATAG ACGGGGGACT AGTCGGAGGA
 9181 CCAAACAAGG TTACCAACAC GTTAGAGTTT TGCCTTCAAT TTACATTTTT AAAGTAATCA
 9241 CAACGAAGTG TTTAGATCAC GAGGCATCCC TGCATGTAAA CTGTTAGGCA CTAACATATG
 9301 TCGATCTTAC AAAGCATTAA CTAGAATATT TCTTTAGAGT ATGATAGTAC GTAACCTGAC
 9361 TACTATTACA TACAAACAGA CCAACCTTTA GTAACAGCGC TCCCCAAAAA CCGAAAAGCA
 9421 GTAATACGCT TTGCTCAAGG TTGGCATAAA ATTAACCTTAC CTTAGTGCCT TTTTCTCTTC
 9481 TACCTACAAG CAGTGAGGTT AGCTCTTCTT TTGAAACGGT AGGGGGGCTC TGAAAAGAGC
 9541 CTTTGGGTTT GATAGCGTTT CCGGGAGCTC AGATACCTGT CAAATCACTT GCCCTTGCC
 9601 TTGTGGTGAC TCTCGGTCTT CTTAGGCAGA AGCACGGCCT GGATGTTAGG AAGGACGCCG
 9661 CCCTGAGCAA TGGTCACCCG GCCTAGCAGT TTGTTGAGCT CCTCGTCGTT GCGGATGGCC

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9721	AGCTGCAAGT	GGCGCGGGAT	GATGCGAGTC	TTCTTGTGT	CGCGAGCCGC	GTTGCCGGCC
9781	AGCTCCAGGA	TCTCGGCGGT	CAGATACTCT	AACACCGCCG	CCAGGTACAC	CGGCGCGCCT
9841	GCCCCAACCC	GCTCTGCGTA	GTTGCCTTTA	CGGAGCAGGC	GGTGCACTCG	GCCCACCGGG
9901	AACTGGAGAC	CAGCGCGAGA	AGAGCGGGAT	TTCGCTTTGG	CGCGAGCTTT	GCCTCCTTGC
9961	TTACCACGTC	CAGACATTGC	AATCAGACAA	AAATCACCAG	AACCAGCAGC	CTAAGCTCAC
10021	GAGAAAACAA	ACAAAATCAA	GAAATATGTA	AAACATGGCC	GCTTTTATAG	GTAGTTCCTG
10081	GGGAGTAAAT	CCGACTTTTT	GATTGGTCGG	TAGCAAATGC	TAGTCAGATA	GCCAATAGAA
10141	AAGCTGTACT	TTCATACCTC	ATTTGCATAG	CTCTGCCAC	GGATGACAAC	TGTGTAGTTT
10201	GTCTTCCAAT	TAACTAAGAG	GTACTCTCCA	TCCCTCATTA	GCATAAAAGC	CCTATAAGTA
10261	GCAGAAATCC	GCTCTTTACT	TTCTGACAT	TTCTGGTGT	TTAAGATGCC	TGAGCCAGCC
10321	AAGTCTGCTC	CCGCCCCGAA	GAAGGGCTCC	AAGAAGGCAG	TGACCAAAGC	TGACCAAGAA
10381	GATGGCAAGA	AGCGCAAGCG	CAGCCGCAAG	GAGAGTTACT	CTGTGTACGT	GTACAAGGTG
10441	CTGAAACAGG	TCCATCCCGA	CCTGCGCATC	TCTTCCAAGG	CCATGGGCAT	CATGAATTCT
10501	TTCTGTTAAG	ACATATTTGA	GCGCATCGCG	GGCGAGGCTT	CCCGCCTGGC	GCATTACAAC
10561	AAGCGCTCGA	CCATCACCTC	CAGGGAGATC	CAGACGGCCG	TGCGCCTGCT	GCTTCCCGGA
10621	GAGCTGGCCA	AGCAGCCCGT	GTCGGAGGGC	ACCAAGGCCG	TCACCAAGTA	CACCAGCTCC
10681	AAGTAAACAT	TCCAAGTAAG	CGTCTTAACA	CCTAACCCCA	AAGGCTCTTT	TAAGAGCCAC
10741	CCAGATACCC	ACTAAAAGAG	CTGTGGCCAG	ACGCCAAATT	TTATTTGGCG	GCGGAGGGGT
10801	ATTAGAATGT	AGGAACTGGA	GAGGGGTGGG	GACAAGTGT	GCAGCTTAGA	GAGGGACAAA
10861	GGGTCTGAA	CCCGAAAGAA	GCCAGCCATT	AAAAATGGGT	TTGGGGTCAA	TTCTGTTGTG
10921	TTAAATTTAA	AATGGGGACA	AGCGGCCATT	TTGCTAACTC	GGCGTTCCCG	GAAGAAACCG
10981	CAGGCTCGCT	TAGGTTTCAG	ACCCAGCTGT	CTGTCCCTGT	CTACGTCGCC	AGGATCAACG
11041	GTTGCCGTAA	TGTCATAATT	TCGCCACCAG	CTTCTAGCCA	ATAGGCTGTC	CTGTCAATTT
11101	AAATATTAAC	CAATCGAGGG	AAAGCTGTTT	TGAGACTCTG	ATTTACATAG	CGGACCGGAG
11161	TGGGAACCTG	GGCAGTAAGT	GCCTAAGGAA	GGACTCCCCC	TCTGTTTTCG	TGGCGCACAC
11221	CTTCGTAGTA	TACTGAAGGG	TGTGTCTCCT	GGGTTTCCAA	CTGCCCCGGT	AAATGCTTTT
11281	TAACCTAATA	TGCGTCAGTT	TTGATAACAA	CACCTAAGGCA	GTACAGAACT	AATAGTGTAA
11341	GCACTGCGCC	AGATGTTGCT	TCATACATCT	TATTTCTATC	AACTGGTTTA	TTCAAGATTG
11401	AAATCAAATC	AAATTTTGCT	TGAATCCCAG	TGCTCAGTCA	GCCATAAATG	GTGTGTTGCC
11461	TGATTGAAAC	TTAAATCTC	CGTAGGGGGC	TTGTAACATG	CAGAAAAGTT	TGAAAGTTGC
11521	TTTAGGAGAA	GCCAACTCTT	AACTGCTGGG	TAAATTGACA	AGCCTTCGAA	CCTGAACTG
11581	AAGGCCAGTA	AGGACTAGGC	GCTGGGTGGG	GGAGAATGAA	GAGGAGACGT	CATTAACTT
11641	AGCACATACA	CTGTGTCTCC	TAGAGGACTC	TCCCTTCCTA	GACAACTGCA	GGCCGCTTTG
11701	TGGCCTGGGA	AATTCCACAT	TCCCTTAAGT	ATTTTACTCA	TGGTCTTTTC	CAGGTAAAGA
11761	TTTTAAGATG	AAGGGTTAGA	CGTAGTCTAC	CTATCTTTT	ATTCAAGTCT	AGAACACGTT
11821	TTTAGCACCT	AGAAGTTTGC	TTTCTCCATT	AAAAACCGGG	AATATACAAT	AAATAAAATT
11881	AGTGTTAAAG	CAGATTTTTA	CAAACCTTAA	TACCATGTAA	TTTAGGTTAC	AGTTACTTAA
11941	CATAAGGACT	GTGTGATCTT	AAATCTGCAA	TTTCTTTCAC	ACCTGGGAAA	TAACTAAGG
12001	CCTGCTTTTG	GTGCCAGACA	AGGCCTTATA	CTTGAACACT	GCTGTGCAAT	CACAGGCTGC
12061	CTTGCCTAGA	TAACTTATCT	GAGAAATTCT	GATGAGAAAT	GAAATTTCCA	GAGTCCCTCA
12121	CAAGTAAATT	TTTTTTTCTT	TTTTTTTTTT	TTTGAGACGA	AGTTTCTCTC	TTGTTTCCCA
12181	GGCTGGAGTG	CAATGGCGCG	ATCTTGCTC	ACAGCAACCT	CCGCCTCCCG	GGTTCAAGCC
12241	ATTCTCCTGC	CTCAGCCTCC	GGAGTAGCTG	GGATTACAGG	CATGCGCCAC	GACACCTTGG
12301	CTAATTTTGT	ATTTTTAGTA	GAGACGAGGT	TTCTCCATGT	CGGTCAAGCT	GGTCTCGAAC
12361	TCCGGACATC	AGGTGATCTG	CCCGCCTTGG	CCTCCCAAAG	TCCTGGATTA	CAGGCTTGAG
12421	CCACCGCGCC	GGGCCTAAAT	GGTTTTTTTT	TTTTCTATGC	CTCTAATGGA	CCTGGTCACT
12481	TATTTCCATT	CAGACTGACC	GCTCTCCTAC	CTGCCAACTA	ACTAATCAGT	GTAACCAAAA
12541	TCTGCAACAA	AAATTCAGTA	TTCTTTCCCC	GCCTTTTCCC	CTTTCTCTTA	CATAGATTAT
12601	GTTTTTGCCT	GTGTTAGATG	AAATAATTCT	ATTGCTTGTT	CTCTCTTCTG	TACAAGTACC
12661	CAGTAAGCAA	ATTATTAAC	TCTTGGTCAT	TTATTTCTGA	ATTTTCCACC	AAGACAGTGT
12721	TTATGTGAGT	CATACAATAA	GAACCAACAG	AAATGTGTGT	CTTGGAACAA	GGTTGTCTAT
12781	CCCTGGACCC	TTTGAGTTTT	CTGTTCACTT	TCCTTTGGCT	TTTGCAATGCT	AAAAGTTTAT
12841	CGTCCGCGTT	TGTTTGTTTT	GGTTATTCTA	ATTGGACTTG	GCTGATTGGT	TGCATATTGG
12901	TGGCAGTAGT	AGAATTTGAA	TTCTGGTTTT	CTGGTCACAT	CATTAAGTGA	TTAGTCAGTG

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12961	GAGAGGACAG	GAAATCTGGT	TTATTTATTA	ACCTTTTTTT	GGGGTGTTTT	TGTTTGAAGA
13021	TGTTGATATT	CTCTGTGAGG	ACACAGGGTT	AGAGTTGGTG	TTTTCTTTC	TGACTTTTACA
13081	TGGGATTTGA	TGTTTTGTGC	TTGTATGCCT	CTTCCACCT	TCCAAAACCT	GTCTTTTTTG
13141	AGTCCAAATA	GTTGTCGATA	TCTGCAAAAC	CAGTATTCCT	GTGTTAAGAT	GATATGAATA
13201	TAAAATGGCT	GCCCTGTTAT	AACCTTTTGAC	TTTAAGAAAG	TGTTAGGACT	AACAGGAGAC
13261	AAAAAGGAAA	TCAAGGAAAC	CAAATGTCTG	GTCTCAATAA	CTGCTATGGC	AGAGGCTCTA
13321	CAGCTTATTA	TTAATTTTAG	TAATTTTACA	TTATTGCCCC	TTCACGTTCT	TTAAGTAAGG
13381	TTAGAGGACA	GAAGAAACAT	AATGTTGTGA	CAAATTGGAC	TATTGAGTCA	GGAAAAAATA
13441	AGAGTGCTTT	CAATATCTGA	ATAAAACAAA	GATTTAATAT	TTTCTAAACC	TTAACGAGTT
13501	TATTGTAAGG	GATGTGATGC	TGGAAACTAG	GAAACTAGAA	TTTTCTTCTA	AACTGAGAAT
13561	CAGAATTATT	CATATTCTCA	GCAGTGGTGC	CACCTGAGGG	ACTTCTGATC	TTAATTACAT
13621	ACTTTTATTT	CTTTAACTGA	TCAACATGCT	AAATAGATAA	CCTATGGCTC	TGTTTTTACC
13681	CACTTTAAAT	TCTGTTCTAT	TAGCAGGTTT	AGCTTTCCTA	ATTGGCAATA	AGATTGAGAC
13741	TATCTTTTTT	TTTTTTTTGA	GACAGAATTT	TGCTCTGTGG	CCCAGGCTGG	GGTGCAGTGG
13801	CACAATCTCG	GCTCACTGCA	ACCTCTGCCT	CCAGGGTTCT	AGCAATTTTC	CTGCCTCAGC
13861	CTCCCCAGTA	GCTGGGATTA	CAGGTGCACC	ACCACGCCTG	GCTAATTTGT	GCATTTTTAG
13921	TAGAGATGGG	GTTTCGCCAT	GTTGGCCAAA	CTGGTCTCGA	ACTCAGGTGA	TCCACCTCGG
13981	CCTCCCAAAG	TGATGAGATT	ACAGGCGTGA	GCCACCGTGC	CCAGAAAAGA	TATCTTTATT
14041	TTATGAATTT	AAATAATTGT	GAAATTATCC	ACTTAAGGGA	ATTAATAAAT	TATAATGTAA
14101	TCTTAAATTT	TAGTTGGCTT	ACATAAAGAC	TTAAAATACA	TCAATTTAAA	TAAAACTCA
14161	TTTGTCTAAA	AAAAAATCAA	AAATTTTCCT	TGTGCTTTAA	ATGTGCTACC	TCTTTAAGTT
14221	CTAATTAAGA	GAAAAAAGT	TTAACTGTGA	GTTTCATTAG	TGGTCTTAGT	TAACAGCTTA
14281	AAGTATTTTG	TAAAAAAAT	ACTTCACAAT	TTTAAATAA	CTTAAAAATA	TTAATACCTC
14341	TTTTATTAGG	TTTTTTTAAT	AAGGAAAATA	TATAATACAT	CTAATCAAGA	TTATTTTTTG
14401	GACAAATTGG	CTTAATAATT	TCATTTTAAA	AATGGCTTCT	TTATTCTTAT	ACTGTAAAAA
14461	TAATATTAGC	AGAATATTAT	AGTATACACA	AGTTTAGGGT	TCATATTCTA	AAAAACAAAA
14521	ACAAAAGCTA	ATTTAACTTG	CATTTACTAA	ATTTCTTCCA	CTAGTTGTAC	TGGTTACATG
14581	AGTTAACATC	ACTTTATTTA	TTATTTCTAA	ATTGTAAATT	ATTCATTGAA	CCAAATTAAA
14641	TGATAATAGA	TAATGTCATT	TTTAAAAATG	GAATTAAATT	TTATGTTACT	AATTATAAGG
14701	ATTCAATGTG	TGAGCTTAAG	TACTGAGTTC	ACAGTGTATG	ATAACTTTAA	GAATTTAGGT
14761	GAATATTATT	AAATTGAGTA	AATTAATTCT	CAATCTTTGG	ATACCTGGAC	AATTTCTAAA
14821	TTGGAGGGTA	CAAAATACAA	ATCACAAGAA	ACAGTGTAGT	TTTATGCAAA	TAACATTTTT
14881	ACACAGTTTA	GAATAACCAT	TGATAAACAG	ATAAGAGAAC	ATATGATTGC	CTTAGAATAG
14941	ATACTGTTGC	TTTCGCCACT	TTAGATTTGT	AAATCATGTA	CTGTATACGT	CTGGGCGTAG
15001	AGGACCATGC	AGGTTTTGGA	TGACTGCCCT	TGTTTTTCGT	ATGCCTATGC	GGAACACAAA
15061	TTGCCTGCTT	TGTTTAAGGG	CTATGGTTAA	TCCAAACAGC	TCTGACTCTA	TCAAGTACTA
15121	TAGCTACAGA	GAAACACAAG	TAAGCATTCT	AGATAATGAC	TACCTTGAGC	CTTTACTTAT
15181	TTAAAAAGTT	GTTACTGTTT	GTTAATGTGG	TACATTCAAT	TTACTATGGA	TTGTCACTCT
15241	AAAATAAGAC	TTCAATCTTT	TTCTTATTTT	TATATAGCCA	TGATTTATAT	TCATATCTTA
15301	ATGTAATAAC	CAATCTTCTC	TGACAACATT	ATAACAATGC	TGGAACCTCC	ATTTTCAGTA
15361	CTTCAAACAA	CAAATACTGC	TTTTTACTTT	CAGAGCAGAT	GGATATGTGC	TTCCAGTGT
15421	AAACACATTT	GGAATCTCAC	TGAGAAATAC	ACTATCACTA	AAAATACAGT	TCTGAGATTC
15481	ATTAAAAAGAC	CTCCAGAATT	CTGGAAGTAG	GAAGTTTCCT	CTTCAAAGTC	TACAGAGGAA
15541	GACGAGGTCT	GAAATAGACA	GCTTCTTCCT	TCTTTTACCT	GTGGTATTAT	TCTGTTTTGT
15601	CCTTTTCTCC	ATTATCTGTC	TTTCCAGTGA	TGAAATTTTG	ATCTGGCCCT	CCCAAGTATT
15661	AAAAAACAAG	CAAATAACA	AATCTCAGTT	ATATTTTACT	AAGATATTGG	CATGCTAACT
15721	TTTTGCAGGT	TTGTAACAAG	GACCTTTATA	ACTTGACTAA	AAGTTCTTAA	ATAAGAATAT
15781	TTACTAGAAA	ATTTATTTCT	GCCTGTGGCC	CACATTTGAG	TCAAAATAAT	CAATTAGGAA
15841	AAATGAACCT	GTTTAACTAA	AGTTGGCCAA	ACTGATCTTT	GAGACCTATT	CATCTAAGAC
15901	AAGCCAATTA	AATTCTTGGA	GACAATTTGT	ACTTTAAGGA	ATTCTTATAA	TATTTGTAAT
15961	TACCTTCATA	ACTTTTTTTT	TGCCCTACTT	CTGTGCTTCT	CTAATATGCA	GATTATTAAA
16021	TGTTGTTACA	AAGCCATTGT	CAAAAAACA	AAAAACAAA	AACTAAACAA	ACTCACATGG
16081	TTAGACTTGC	TCCTTTATGA	GATATTTTGA	CCAAAAATGG	AGGAGTTGAA	AAACTCTGGT
16141	GCCAGAAATC	GTGAAGACAT	GGCTACCTA	ACTTGGAAT	GTTGGTTGTC	AGTGGAAT

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16201	ACTACACAGA	GATAGCCATA	GTGCTGCACA	GCCAATCTTA	AGTGTTTCTA	GAGAATCACT
16261	AATTGTTTTCT	AGAGAATCAC	TAATTGTTTT	CTTTTAACAT	TCTTGTTTTA	TACAAGAAGA
16321	GAGTATCCAT	ACTAAACTCT	TTTCTACTGA	AAATAATGTG	CAAACATAAC	ATCCTATTCC
16381	TAGACAGTTT	GTAGTTTTTT	TCTCCCATTT	CTATTTTATA	AATCATCTTT	TTAAAATACT
16441	TTGTTGAGTG	AAATCAGTCC	ATTGCTTGAT	ATACCTTGAG	CACAAGTAAA	TAGTATGCCA
16501	AAAATTAAAT	GTCTTTCAGT	CACAGTTTGA	CAAACCTAAC	TACCCTGAGC	CTATAGAGTG
16561	GTAATAATTG	CCCTACTCAT	AAAGATGGGG	TGAAGATTAA	ATGAAATAGC	ACCTATAGAA
16621	CACTAGTTCC	AGACGTGGTA	TCATGCTAGT	AAAATGGCTG	CACAGCACTG	CTCAATGATG
16681	ACAAAAAGTG	AAGCTTCTGG	AGACAGACTC	CAAGTTTGAC	TCCCAGATCA	CCACATATAA
16741	GATGTGGGAC	TCTGAGGCAG	GTCATTTAAT	CTCTCTGTGC	ATTAGTATCC	TTCTCTATAC
16801	CTTTACAGTG	ATGGTAATAG	CACCTACCTT	CTAGAAGTAT	GTGAAGATTA	AAGATCCTTA
16861	ATGCATATAA	ACCACTGTGT	TTACTGCTGT	TTGACAAATT	TTATTTATAA	CCATCTTTAC
16921	GCTCCTAAAA	GGACTTGAAG	CAGCTTATGA	CTGAAGACTT	TGGTAGGAGT	TGGCCTTCTA
16981	TAAATTATAA	GAATTTTATA	AATTATTTGA	TATGAAAATG	CCAGTTGATC	ATAGTATGTT
17041	TACCGGGGTC	CAACAGGTTG	AGAAAAATA	CACCTTTTTT	CCCTGAACAT	ATGAAATTAG
17101	CTCTCTAGGC	ATATTCCTAA	GGACTTAAAG	AATGATAACT	ATCATTCTCT	TTAAATCTTC
17161	CAGATTTGGA	AGGATATATA	TATTCAGCAC	ATTGACAGAC	AATCCAGTA	GTCCTAAATT
17221	AAAAGACATT	AAAAATTAGT	GAAACTTTTC	CTACCTTTAG	CCTGTGTAAT	CCTGGATGAC
17281	CAAGCATAAA	ATTAAATTGA	GTAGAGTATA	CCACTGTAAAC	ATTTCTTGAA	AGGTATTCTA
17341	GGCTCTGAGT	AATTTCTTTG	GGGCTCTGAAG	ATCAGTTTGA	CATATCCTCA	AGTATCATGA
17401	GTTCAATTATA	ATTAAGAAAA	AGGGAGTAAA	TCTGGAGAAT	GAGCCACTTT	CTTACTACTC
17461	CTTGACCTCA	GTTCTTTTTT	TCAGAGACAG	GGTCTCACTT	TGTTGCCAG	GCTGCCAGGC
17521	TGGAGTGATG	TGGCGCAATC	GCATCTCATT	GTAACCTCCA	CCTTCTGGGC	TGAAGCCATC
17581	CTCCTGCCTC	AGCATCCTGA	GATATCTGGA	CCACAGCAGG	TGCACACCAC	CGTCCCAAGC
17641	TAATTTTTTA	AAAAGTTTTT	TGTAGAGATG	GGGTCTTACT	ATGTTGCCCA	GGCTGGTCTC
17701	AAACTCCTGG	GCTTAAGTGA	TCCTCCTGCC	TCAGCCTCCC	AAATTGTTGG	GATTACTAGT
17761	GTGAGTCACT	GTACCCCGCC	CCACTTCAGT	TCTGAGGAGG	AAAAAATATG	TAATAATAAT
17821	GGGACTTTGG	TTTGCTGATT	TAAAGATTCA	TGTAACCTTA	TCATCCAATG	CGCAATTTGT
17881	AGAATAATTA	ATAGAGACAT	CTGGTCTCAT	GTTTCTACAG	TTGCTCATGC	CTTGATAGTA
17941	GATCTCCTTG	CTGCTGGCTC	AGAAGGGTAA	AAGAGCAGAA	ATGATGGGGC	TTCTCTCATT
18001	CTATGAGGAA	ATAGACCTAT	GTAGAGGAGG	CTACCTGTGG	TAAAACCTTA	TCCTCATCAC
18061	TTAAAAATTCT	AGGCTTATTC	TCTGACCATA	TCAAGTTTTT	AAATGGTAAA	AGAATTGGAT
18121	TCAAGAGAAA	TATGAATAAA	CTTTTGTTTT	CACTTTTCTC	CCTCCTCTCC	CCCCATTCTC
18181	CCTTCCTTTA	TTTTCTTGTC	CTTAGTTTTT	TTTTCACTTT	TTTGTCTACT	ATTATTTGCC
18241	CAAACCTAAC	TGTAGGCTAG	AACAAAAAAA	AATTGAAAAAT	TAAAATGTGC	CCCTTTTGTT
18301	GTTAGACTTG	CTTAAACAAT	TGGGGTAATG	AACCTTGGAC	ACTAGATTTT	AAAACACACA
18361	CATTTGAGCT	TCAGTGCAC	GAAATAAATA	TATTTTTAAC	AATTAAAAAA	TAAATTGCA
18421	TGTTTAAAAA	ATCTGCAGAG	AACAATACAC	GTTGTGAGAT	CTTGAATGGA	AGGAAAACCTG
18481	CTAGCCTCAA	GAGTGGATCA	AAGATGCTCA	GCAGGCAACA	GAGTAAGAGC	ATGTTGGAGG
18541	GTTTAGAGAG	TGTGCTCAGG	GTTCTAGGCT	CTAAAAATCA	GACAGTCCCC	ACGGCCTGGC
18601	CTTCGTCGCT	GTATCTTCTT	TATGAAAAAC	ACTAAGTCTT	TTTCCTCACT	GGATAAAATT
18661	TTATCCTTCA	AGTTTAGATC	AAATGGAAC	TTAGGACACT	GACTAGGTTA	CATTCACTTT
18721	TTAAGAGCGT	ACAGACATTC	AAGGGCTAGA	GGATGTGGGT	TTACTGCACA	GGCTCATTAT
18781	CCAACAGCTG	TGCTACCTGG	GAAACTTAAC	CTCTCTGTGC	CTTAATTTCC	TCATCTATAA
18841	CGCAGGGAGA	ATGACAGTAG	GTATCTCATA	AGGTTGTTGG	AACAACATAA	TGCATTGGTA
18901	TCTATTGTGT	AAAGTGCTTA	AAACACTGCC	TGGCACAGAG	CAAACATCCA	GTGAACCTTA
18961	GCCATCATCA	TTATCATTGT	TCTCAGAGTC	AAATACAATA	TCTCATATCT	GATAAATTAC
19021	AGAAGTGAAT	CAATCACTCT	CTCTCTTTTC	TCCAGGGGGA	GACAACAGCT	TTTAGACATA
19081	TCTTTTCCAA	CAGTCGTCAC	TGCTGGACAC	TGTTTCATCT	TGCAAATAAA	CCAATGAAAA
19141	TGAGTGATCC	TAGAAGAAGA	TAAATGGAGG	TATTTTGAAC	AATCAAAGAA	GGACAAATGA
19201	ACACCTGGCT	GAGAAAAAAT	AGCTCTTTTT	TCTATGCATA	AAACTATTAA	AATATCTTCT
19261	ATAGAAATTT	ATGACACAGG	AAACATAAAG	ACAAAAATTAA	AATAACTCCT	AGTATCTCCT
19321	ATTCTTTTTA	TATGTATATT	ATATATACTC	ATATTTCATAT	ATACATATAT	CTCACATCAT
19381	GTATCATATA	TAAAAATAAT	TTAGGTGTCA	TGATATATAT	TTAGATAAAT	ATACTTAGAA

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19441  ACTTTTTTAT GGATGTATAA TTTATGGATA TATTGATAAT TATGTATTTG TTATTGACTA
19501  CTTCAATTGA TTCCCATTTT TATGCATTAT ATTATAGATT ATATAGCTCA CACATCTTTG
19561  TACATAAATC TTTGTTCAAA TATTATTTCC TAAGGATAGA CTTTCATGAAG TGGAAATACT
19621  AAATCAAAAG TGAAAAACAT TTTCTAAGGT TCTTAACATA TACATTGCCA AATTGCTATT
19681  CAGGATCATA CCAATTTATA ATCCCAAAAT AATATGAAAA TTCCTGTTTT ATAGCACTCA
19741  TATTTACAAT AAATTTTAAA AATCACTGTT AACCTAATAG TCCTTCAAAA GAAAAAATAA
19801  TTGAAATTAC ATTATTTTAA TGACTCTATT AGTGAGGGTC ATTCTTCCCA TGTTTCTTGT
19861  TAGCCATGAC CCTATAAGAA ATAACTGCA CTGCAAAATG ATAAACATGA TATCAATCAT
19921  TACATGGGAA GGCATATAT AAAGAATAAT ACCTTAGGTT AAGGCCACAT AAATATTTAT
19981  CAGGTGCCTT TTCTGCGGAG GACTCTGAAG GGATACTAAA CTGCATTTAG CTGCATGCAA
20041  CTGAAATTAC TTTTACCTAC ATTGTCTCTT ATAAACATTA TAACTACTCT TTGAGAAAGT
20101  GTTTACTATG GACTGAATTG TCTCCCATC CCCCCAAATT CATATATTGA AGCCATAAAC
20161  CCCAATATGA CTCTATTCTT AGACAGGACT TATAAGAGGT AATTAAGGTT AATGAGGTC
20221  ATTAGGATGG GTTCCTAACT GGATAGGATT GGTGGCCTTA TAAGAAGAGG AAGATTCTGC
20281  ACTTGGTCTT CCAAATTTAA TAATTTATTT AAAAGAAAAA AAAAAAAGA GGAAGAGAGG
20341  GAGCTCTGCA CATATACTGA GGAAGGGCTA TGTGAGCTCT CACAGTGAGA AGGTAGCACT
20401  CTACAAGCCA GCAAGAGAGC CCTCACCAGA ATCCAGCCAT GCTATACCCT GCTCTGAGAC
20461  TTCCAGCCTC CAGAACTGTG ATAAAATTTT GTTGTTTAAA CCACACAATC TATGGTATTT
20521  TTTTATGGCA GCCCAAGCCA ACAAAGACAG CATCATTGCT GTCACTTACA GACAAGAAAA
20581  CTAAGACTAG GAGAGAGAAA AGTTAAACTT GTCCAAGGTC ACAAAGCCA GAAACAAGTG
20641  AGGTGAGAAG TTGACCTTGT TCTCCTCAAT CCAAGGCCAG GACTCCTCCA CTCCACATGT
20701  AGATAGCCAC CTCACAGTCA ACAGCCAAAT GTCCACACCC CAGAGTCAGC ATTAGACCAA
20761  GATGTCTTAC CAGGAGACAA ATGCCTCATC TTGAATAAAT ATGTTCTAAC AACTTACCCA
20821  TGTAAACAT TGAATCTCAT GAGAAACAAA AATGCAAAGT ATGTAGAAAA CTATGTTTAC
20881  CACTTAACTG ACAGTGATAA AAAGCTTAAT GATATCCTTA TAGTCTTGGA GGGGTTTGTA
20941  TATGTGGTGA AACAGGTGCT CACGCACTGC TGATAGACTG TAAATTGGTC CTAGAGAGAA
21001  AAATAAATA ACTGGAAGGA GTTATGCTGT ATGTTTACTT TTTTATGGA AACATATGAT
21061  ATACCTGGAA ATTCGATTGG CCATGCATCT ATTTCTTCAA TGGGTATGCA CAGTTGAGCT
21121  GTTCCCATGC ACCAGGCACT GTAATGGGAC AACTGCACAT GACAGTCAA AACTCTAGTC
21181  TCATGAAGTC GACATGCTCA TGGAGAGGTG CTACCCACTA AACTAATATT TGTATATCAA
21241  TTATGGATAC ATTGGGCCAC ATTTACAGAA ATTCACTTAC AGTGGGTTAC CAGAAGGGAT
21301  TTTTTTCTT GATTGGCAAG AAGGCTAGGC TGTTTTGTTG GGGGCTGGCA GGAGCTGTCT
21361  AGGCTGCCCA AGTATGCAGG TCTCTTCTAT CATCTGTGT TAACCATCTT CCATGTATCT
21421  TTCAACCTCA TGGTCATCTG CAGCATGTCT AGGGGTCATA TCTATGTTCC ATGCAGGAAA
21481  AAAGGTAAA GGGAAAGGGA AGTAGGCATG TACCATTTTA ATGCACACCT TGGTTTTAG
21541  AAAATTTAAG AAGAAAGACT TTCTGCTTTT CTCTGACTAT TCTGTATTCT GGATTACAAC
21601  GCAACAGAAA CGTCACCTTA AATTCTAATG TTTTCTCTC CTGCTTTTCA AAACTGACT
21661  CATTAACCTC CACGTGGCTT GGAAAAATTA TTTCAGTCAT CCAGTAATGA GCTGTTTATA
21721  GAAATGTTTT GGACATCAAG TCTGTGTTGT TAGCATTATA CATGTTAAGC ATTGAATAAA
21781  AAACAACATG ATGTGGGTAC ATTTCTTTAC TTACATATAA GTACTTATAT ACTTATAGCT
21841  GAAAAGAGAG GTTGAAATGT CAGGTGGAAC AGAAATAAGA TTACCTAGAT GTTCTCCTA
21901  TGGGTGATTT TCAGCTATGC TGATCTTTCT TCTGGGTCAG GTACTCCCAG AACTTCCTAA
21961  TTAAATGGTG GCCCTGATCT TAGTTCCTCT CTCTCTTAG ACATTTTCCA GGAATACAGA
22021  AGATGTGCAG TTTATAAATG AGTAGCAGAA ACCTACTGAA CAAATTATTC AGGCTCATCT
22081  GAACAGAGAG GACACCTTCT CTGTATACT CTCTCAGTGA TTTCCCTGCC TTGGGGTCAA
22141  TTATTGTCTT GGACATTGAT TTAAGCACAT AATAATTGTT GTCATTGCTT ATGTTTGGAT
22201  TTCATCTCCC AAAATAGATG GTAAATCTT TAGTTTAGAG ACCAAGTAAT ACTTACAAAA
22261  AAATTTGTG TGTGTGTGTG TGTTTTTCT GTGTCTCTCA GCCCTGTAAT AGCATCGTAC
22321  TTACACTTGT TAGATTTTTA GAGACAACCT TTACAAAACA TGAATTATC TACATACCCT
22381  TTCTACAAA CAGACAAATT AAATACTCAG TAGTTGAACC AAAAAAGCA GTTCAAATAA
22441  AATACTTGAA AATGAAGAAA TCATTTGAAC AGAGTTAAAG TTAATCGTAA AATAATGTCT
22501  GTAAAAATTA TTGCAATCA AATATAAAGT TCAAAAATAG TGCTTGAAAA AGGAAGAATC
22561  ATATGAAAAG GGACTACTCA TTTTAAAAAT GTTAGATATC AGGAAAAGCC AAGAAGTGAG
22621  TATGGTAAGA GTGCTGTCAA GTGAAACCCT GCTAATCTCA CTGAACATGT AAAAATCTGT

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22681	AGATGCCTTT	ATTTTATTCA	CTCACACACA	TATGTAGAAA	GAGAAATATA	TGGTAAACAT
22741	TAAAAAAAAC	AAATTAGAAT	GTAAAATTAA	TACTTTAAAA	AATGGGCTGT	ATACTTTTCT
22801	TATCACCGGA	GATAAGAATT	TATTATTTTT	AAAATAAAGT	TATTTTCTCT	GTGACTGTTT
22861	CCATGACTTT	GCTACTTAGA	AGTTAGAGAT	GCCAAAGTTT	ATCTAAGAAA	ATGTTTATGG
22921	AAATATTATT	TCAATAATGA	ATGTTTAGAA	GACTGAATTT	CCTGACTGGG	CACAGTGGCT
22981	CATGCCTGTA	ATCCCAGCAC	TTTGAGAGGC	TGAAGAAGGA	GGATCGCTTG	AGTCCGGGAG
23041	TTCAAGAGCA	TCCTGGGCAA	CACAGCGAGA	CCCTGCAGCA	AAGTAAAAAG	AAAAAAGAAT
23101	TGAAAAAGGA	AGACTGAATT	TCCTTTGGGC	AAGTCATGTG	ACATTCTCTG	GCCTCAGTTT
23161	CTTCATCTAT	AAAGTTAATT	CCTACATTTT	TGGGGAAGGG	AGAGAAAAAC	TTAGGATAGT
23221	GACTGGCACA	GAAGAAGCAC	TATATACTAT	ATATATGTGG	ATATCATTTG	TTTTTATGGT
23281	ACCATTTTAG	CTATCTAATG	CAAAATATGA	ATCTTTTTTT	TCTGGGTCTT	AAATTATGGA
23341	ATGTAAGAAT	TTTCTAAATT	CTCTAATTCT	TGTGTTAGTT	TAAAGCAATG	GAGTAACGTA
23401	TCTGTCAACT	TGTAAATATA	AGGATCAACC	TGATCCACAA	TTTGACCCCT	AGCCACTAAT
23461	ATTTAATAGT	ACAACACTCA	GAAATTATCA	AAGGTCAGAG	AAGCCAAACA	AATGTAAAAA
23521	CATACAGGTG	CTCAGAAAGA	TGCACCTGTA	ATCTCTCTAA	GGAGAAATAT	TTTCCAAACT
23581	GAGTGACACG	GTGCTTTAGT	GAGTTGTGGA	ATCAATCTCA	TGATTTCCAA	CCTAGTGTTC
23641	TTTTAAAAAT	GAAGTAGTCC	ACAGTAGAAT	ATACTAAAGT	GCTGGTGCTT	AAGATAGTAT
23701	TGTTTTCTGG	AAAAAAAAAA	AAAATTTTTT	TTTTTTGAGA	CAGGGTCTCG	CTCTTGCCCA
23761	GGCTGAAGTG	CAGTGGCACA	ATCATGCTCA	CTGCAGCCTT	GACCTCCTGG	GCCCAAGTGA
23821	TTCTCCCACT	TCAGCCTTTT	GAGTAACTGG	GACCACAGGT	ACGTGCCACC	ACACCCGGGT
23881	AATTTTTTAA	TTGTAGAGAC	AGGGTCTTGC	TATGTGCTTA	GGCTGGCCTT	GTGAAGTCTT
23941	GGGCTCTAGT	GATCCACTAG	CCTCAGCCTC	CCAAATTTAT	GGGATTATAG	GCATGAGCCA
24001	CCCTACCTGG	CCTGTTCCCT	GAATTTTTTT	TTCTTTCAGG	TGTTTGTGCA	TATGTGTGTG
24061	TGTATGGGTA	TAACAGAGAG	ACAGAGAGAA	AGAAACTTTT	CTATCACACT	TTGCAATCAG
24121	AAGTTTGAAG	TCTTATCTTT	TGGCTTTTGT	TTTCCAGAA	TTTCAAATGT	AGACTCTCTC
24181	CTTTACCACA	CTGTCCCCTT	AGGCAAGGTC	TTTGCCATTC	TTCTGAGACT	ATTGCAACAG
24241	ACTCCCAACT	TCTGACTGTG	GGCCCTTCTC	AAAAATGATT	GTTTATGCAA	TAAATCTAAA
24301	CCCAAGACAA	CTACAACAAT	ACAACAAATT	CTCTGCTTAA	AAACTTCCAA	TGCTGTCCGG
24361	GCGCGGCGGC	TCACGCATGT	ATTCCAGACA	CTTTGGAGGC	AGAGGCGGGC	AGATCACTTG
24421	AGGTGGGGAG	TTGAGACTTA	GCCTGGCCAA	CATGATGAAA	CCCCATCTCT	ACTAAAAATA
24481	CAAAAAATTA	GCCAGGCATG	GTGGTGCGCG	CCTATAATCC	CAGCTAATTG	GGAGGCTGAG
24541	GCAGGAGAAT	TGCCTGAACC	TGGGAGGTGG	AGGTTGCACT	GAGCCAAGAT	CACACCATTG
24601	CACTCCAGCC	TGGGCAACAA	GAGCAAAACT	CTGTCTCAAA	CCAAACCAAA	ACAAAACCTC
24661	TAATATCTAC	CAAATGTTTC	ACACAAGTAT	TTGGGGATCT	TCACAAATGG	CCCTTATGGA
24721	GTTTTCTTTT	GCTGAGACCC	TATGCTCTGG	CCACACTAAA	CTCATTCAGC	ATCCCAGAAA
24781	GGCCTCAGCC	TTTGTGAGCA	AGCTCTTATC	TCCAGGCCTC	TCACAAAGAC	CTGTTCCAGT
24841	AGAAGCTCAG	GGGAGCACAC	TGGACATTAT	TCCAACAACC	CTTTCCCCAC	AGCTATGCAG
24901	CCAAATCTGC	CAGCTCAGTT	AATTAATTAA	GCAATTCAGA	GATGAGGGTC	TGCCCAGGCT
24961	GGAGTGCACT	AGCTGCGACC	TCAAGCTCCT	GGGCTCTAAG	TGATCCTCTT	CAGTCTACCC
25021	AGAAGCTGGG	ACTGCAGGCA	TGTGCCACCA	CACCCAGCTA	ATTTTTTTTT	TTTTCAGTAG
25081	GGACCAGGCC	AACCTAGTCT	TGAATCCTTG	GCCTCCAGCC	TTCCGAAGTG	CTGTAATTAC
25141	AGGCATGAAT	CACTGCGCCC	AGCCAACCCG	CCCAGTCTTG	TTAGACATGG	GGTCTGTAGT
25201	TTCTAGTAGG	TTCTTGAGTC	TAGGGTCTCT	ACCTCATGTT	TTATAGTTAA	TTTAGGGGAG
25261	GGACTGTGTC	TGTTTATCTG	GGGATGTAGG	GGTGGGCAGG	GGGATAGAGG	GGACTTCAAT
25321	TAATGAAACC	AGAAGCAAAA	CTCAGTTGAG	GACACCGGTC	ATGAGAGTGG	CCTGATTATG
25381	GCCAATCTTA	CATAATGTGT	GAGATCTTGA	TATTACCCCA	TCCTTGAGAG	TCCTCTATAA
25441	AGCTACAGGG	ACTTGGGAGC	ACCTTTAATT	ACAGACAACC	CATGTTCTCT	TGGATTATGA
25501	TTTATTAGAT	TGCACATGCC	TAAATAAAGA	CATCCTCTGC	AGTCTTTTGA	CAATTCTATA
25561	AGCATCTTCT	GACTCCGCAA	TTAGACAGCT	AAGAGATCTG	TGTTACTTCC	CTCACATATA
25621	TAAATAATTT	TAAATAAAAA	TCATGGCGTG	AATAATTTCT	TTCTCTTACC	GATTTGAAGC
25681	TATCCATTTG	GAAGACCACT	CTGAAGAGAT	GAAATAAGTC	TTCTGCCAAA	GATTACTTAT
25741	TAATTTACAA	GGAAAAGGGG	AAGTTTGTGT	CCTCTCCGTG	AATTTGATTG	AAAATCGAGG
25801	GCTTTCTCGA	ATAGTTTTTG	CATCCAGGGT	CATTTTTTCAT	TAAAAAGAGA	AAAGTCATGT
25861	CAAATATGAA	TTTCCGCAGA	TTATTCAGCA	CTAGACCCTG	GGAGATTCTG	TAAAGAGGGG

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25921	TTTTGTTATA	CTCAACTTTT	CCGGGTAAAA	CAAACACAAA	TACTCCTCCT	CCAAGGGGCG
25981	GGGGCGGTGC	CTAGGTGATG	CACCAATCAC	AGCGCGCCCT	ACCCTATATA	AGGCCCCGAG
26041	GCCGCCCCGG	TGTTTCATGC	TTTTCGCTGG	TTATTACATC	TTGCGTTTCT	CTGTTGTTAT
26101	GTCTGAAACC	GTGCCTGCAG	CTTCTGCCAG	TGCTGGTCTA	GCCGCTATGG	AGAAACTTCC
26161	AACCAAGAAG	CGAGGGAGGA	AGCCGGCTGG	CTTGATAAGT	GCAAGTCGCA	AAGTGCCGAA
26221	CCTCTCTGTG	TCCAAGTTGA	TCACCGAGGC	CCTTTCAGTG	TCACAGGAAC	GAGTAGGTAT
26281	GTCTTTGGTT	GCGCTCAAGA	AGGCATTGGC	CGCTGCTGGC	TACGACGTAG	AGAAGAATAA
26341	CAGCCGCATC	AAACTGTCCC	TCAAGAGCTT	AGTGAACAAG	GGAATCCTGG	TGCAAACCAG
26401	GGGTACTGGT	GCTTCCGGTT	CCTTTAAGCT	TAGTAAGAAG	GTGATTCTTA	AATCTACCAG
26461	AAGCAAGGCT	AAAAAGTCAG	TTTCTGCCAA	GACCAAGAAG	CTGGTTTTAT	CCAGGGACTC
26521	CAAGTCACCA	AAGACTGCTA	AAACCAATAA	GAGAGCCAAG	AAGCCGAGAG	CGACAACTCC
26581	TAAAAGTGT	AGGAGCGGGA	GAAAGGCTAA	AGGAGCCAAG	GGTAAGCAAA	AGCAGAAGAG
26641	CCCAGTGAAG	GCAAGGGCTT	CGAAGTCAAA	ATTGACCCAA	CATCATGAAG	TTAATGTTAG
26701	AAAGGCCACA	TCTAAGAAGT	AAAGAGCTTT	CCGGGAGGCC	AATTTGGAAA	GAACCCAAAG
26761	GCTCTTTTAA	GAGCCACCCA	CATTATTTTA	AGATGGCGTA	ACACTGGAAA	CAAGTTTCTG
26821	TGACAGTTAT	CTATAGGTTT	AAGTTGTGAT	GCAGCTGAGT	TGAAAAGGCT	TGAGATTGGA
26881	GAATTAATTC	AGGCCAGGCT	TCAAGACCAT	CCTGGGCAAC	ATAGCCAGAC	TACCATCTAT
26941	ACCAGGGGTC	CTCATTCCCC	CGGCCACCGA	CCGGTAACCG	GTCCCTGTCC	ATGGCACGTT
27001	ATGAATTGAG	CCGCACAGCT	GAGGGGTGAG	CGAACATTAA	CCAACTGAGC	TCCACCGCCT
27061	GTCAGGTTAG	CTGCAGCATT	AGATAGATTG	TCATAAGCTC	AAACTGTATT	GTGAATGGCA
27121	CATGCAAGGG	ATCTAGGTTT	CAGGCTCCTT	GTGACAATCT	AATGCCTGAT	GATCTGAGGT
27181	TGGAGCAGTT	TTAGTCCGGA	AATCAATTGCT	CCCAGCCCCCT	GCACCCCCTG	GTCCGTGGTA
27241	TAATTGTCTT	ACACAAAACG	GTCTCTTGTC	TCAAAAAGGT	TGGAGACTAC	TGGTTTTACA
27301	AAAAAGTAAA	TTAGTCAAGC	ATGGTTGGCA	CGCTCCCTTA	GTCCCTGCAC	CCAGGCGTTT
27361	AAGGATACAG	TGAGCTATGA	TGGTGCTACC	TCACTCCAGC	CTGGGTGACA	GCGAGTCAGA
27421	CGTTGTCTCA	AAACTTAAAA	AAAAAAAAG	TTAAAACAGA	AAAAGGGCTT	CTTGTCAGAG
27481	ACTGCCGTAT	ATCTAGAGGT	CCAGGAACTA	AAAAGTCTGA	TGTCCAATCC	TGAAAAGCTC
27541	GATGGTGCAC	TAGAGGAGGC	TTTTACATGT	AAGAGCATCT	AAGTTCTGGA	AATGCCAGTG
27601	TCAGGGAAGG	GAAGTGGAGA	GCAATTGTCG	ATCCAAACAT	AAC TTGCTGA	TACTTTTTTT
27661	TTTTTTAACA	CAAGTACTAC	ATTCTAGTCT	TTCTGTGGTG	TCATTGTAAAC	TATTGTTTCT
27721	TAATATGCTA	TCCACTGACT	TCAAGGGATC	AATAAATAGG	AATCAAGGTG	TCCCAAGATA
27781	TGGATTAGGG	GAGTTTTTTT	TTTGTTGTTG	TTGTTGTTGT	TTTCATCTAT	TCATTATCCT
27841	GTAGCTGAAA	TTTAGAATTT	TCTTCCATTG	TGTGTGACTG	ATAGAAATAA	CAAATTTGTA
27901	GTTTATAGTT	GTTGCAAGAA	TCTGGAAATC	GTGCTTGCTT	ATTTCCGAAG	TACTATTAGG
27961	TATATCAACA	AAAACACACA	TATTACGGTC	AAGTGGTTTG	ATAATTATTT	TAATATTATT
28021	GGTCTAATAC	AATTGTAACC	CTATGAATTA	CTTTAAGTAT	CTTATTTATG	AAAAGAATCT
28081	GTAAGTTTCA	TCAAACCTACC	AGAGCATACC	GAAGACTGAA	AAATTTTAAG	AATCCAAACC
28141	TTAATGGAAA	TGTTGGAGGC	TGCCCAATTA	GGTTCTGAAT	TCCACCTTCC	TGAATCACAA
28201	ACTTGTTTTA	ACTCTCAGTC	TGAGGTAAAC	TACGTTTCTC	TTTAAACAGA	CATAGTTTAA
28261	TTTTCCTTTG	ATTTTTGATT	TAGTATTCTT	ACTGATCATC	ATAAATAACC	AATGCTAATG
28321	TTAGTCTACT	TTGGACCATG	GTATTTTCGAG	AAACTTTGAA	CAAAGTCCCC	TGCAAAACTA
28381	TGCATTGCAT	TATTTACAT	ACATTTATGT	TTTCCAGACG	GTTCAATAGT	ACCTCACTTT
28441	TCTGAACCTTA	TTTGTTAAGT	TTGGCATCTT	TTTAAAAATT	GTGTCCTATA	ATGAAAGGTT
28501	GTAAACATTA	TGTTTTAAAT	TTGTATAGAT	AAAATCAACC	ACAGACCTTT	CCTTGCTTGG
28561	ATGTAATTGC	CATTGTTTCC	CAATGAGTTC	GGAATTACTA	GGATTGTGCA	AAAATATGCC
28621	TCACTTGCTT	GACATAGCAG	AGAGCCATTT	TGCCTAAATG	CTGTGCCCAG	CAATGGACTG
28681	TCACCAGATT	CTCATCACAT	ACAGTGAGGA	TGAACAACCTA	GCCTCTCCCA	GCAGCTGGCC
28741	GGTCTCTCAA	TAATATGGGA	CTCCCTCAAG	ATGGCTTCCT	GCACCTTTGC	TCCTCTAGCC
28801	TTGTATGTAT	ACAAGGCTAG	CATGCCTGGC	ATACATAAGG	TTAAAAACAA	AATCAATAAG
28861	TTATGGTTCT	TCCTCCAGTT	CTGGGGATTA	TTAGACCACT	TTTTTGTTTT	GTTTTGTTTT
28921	GGATGGAGCC	TCGCTCTGTC	ACCCAGGCTA	GAGTGCAGTG	GCACAATCTC	GGTTCAGTGC
28981	AACCTCTGCC	TCCTGGGTTT	AAGCAGTTCT	CTGGCTCAGC	CTCCACGTA	GCTGGGATTA
29041	CAGGTGCCCC	CCACCACGCC	CAGCTAATTT	TTGTATTTTT	AGTAGACGGG	GTTTCACCAT
29101	CTTGGCCAGG	CTGGTCTTGA	ACGCCAGACC	TCGTGATCCA	CCCACCTTGG	CCTACCAAAC

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29161 TGCTGGGAAT ACAGGCGTGA GCCACCGCGC CCGGACTTAG ACCACTTTGT TTTGGCCAAT
29221 AGGACAACAG CCATAGAACC CTCCGCAAAT GAGAGCTTGT CCCTAAAGAT GCTTTATTTA
29281 CATAGCTGTG TGCCGCATGA GCCAAAAGGT GATAACCTTT GTTCAACACG CGCCTCCAGC
29341 CCTTCGGTTA AGTCCAAAGT ACCATTCTTA GAATGCTCTA AAATACATAA TTTTTTTTTT
29401 TTTTTTTTTT TTTTGTAGGA GTCTCTCTCT GTCTCCCAGG CTGGAGGGGA GTGGCGCGAT
29461 CTCGGCTCAC TGCAATCTCT GCTTCCGGGC TAGCTGGGCC TACAGGTGCA GACCACCACG
29521 CCCGGCTAAG TTTTGTATTT TTTTGGTAG AGGGGGTTTC ACCATTTTGG CCAGGCTGGT
29581 CTCGGATTCT TGATCTCAAG TGATACACTA GCTTTGGCCT CCCAAAGTGC TGGGATTACA
29641 GTCGTGAGCC ACTGCGCCCA GCAAAATGCT TTTTGTGGAG CCAATCACTT TATTAGCGCT
29701 TACCTCTCTA TGCCTACTTT ATGCTTTGAA ATTTTGTAC AGTGGGGCCG GTCATGGCAA
29761 ACACAATTCA TTCTTATGCA GGCCTGTACG GTTATTTCTG TCATCCAAAC TCATTCTCGC
29821 AACGCATTTT AGCTCTTTAA ACGACTTTGT GAGCGGCCCT GAAAAGGGCC TTTGGGTTTT
29881 TTTGTTTTTG TTTTTTGAAG TTCTCAGGAG ACCGCGTATT CTTAGATTCA GCCGCCGAAG
29941 CCATACAGAG TGCGCCCTTG ACGTTTCAGG GCATATACTA CATCCATGGC TGTGACAGTT
30001 TTGCGCTTGG CGTGCTCCGT ATAGGTGACG GCGTCTCGAA TAACGTTCTC TAAGAAAACC
30061 TTAAGCACAC CTCGAGTCTC CTCATAGATA AGACCGGAAA TGCGCTTGAC GCCACCGCGC
30121 CGAGCCAAAC GCGGATAGC CGGTTTGTGA ATGCCCTGGA TGTATATCCG GAGCACCTTA
30181 CGATGGCGCT TAGCACCACC CTTCCCAAG CTTTTCCGC CTTTGCCCGG ACCAGACATG
30241 ATTCTATCG CAGTGGAAGG TATGAACTGA AACAGTTCCT TAAATACAAA CTTGGCGGAC
30301 CTGATTGAAA ACAACATGAG TTGGCGCGGT TTTTTTTTTT TTTCAAATTT GGTCAACGAG
30361 TGGGTGGAGC AAGAAAACT GTTTCATTAT GGTTTCATTGT TTTGATTGGC CAGTGACAGC
30421 TTGCTCTTTG TGGGAGTGGA AGGGTGTGTT CAAGTTGAAT GCGCTGTATT CCTGTCAGCT
30481 TAATGACGCT AAGCATAGCC CCATTCCACA TTTCTTTTTA TTTCCACTTG CTAACATAA
30541 AATTACGGAA TAGTTTATTG GGAACATAC AAATAATGTT TAAAGGAGGT CAGATTTATA
30601 GGTCAAGGGA TTTACCCTCC CAATCATTTT AATATTTTAA TTTAAACCAG GCATTTTGAT
30661 GGCCTTCTCT GTGCTGGACA AGGTATAAGT TTGGCTATGA AGTTTCACTC CTAAAGACCC
30721 TATGTTTTTG GAAGGCAAAA AGGTATGCCAA ATAATTGCAA ATTAACCTCT CATAAGTGCA
30781 AACTTCTTCC TCGTCACTTT CCTATCTCG ATTCAAATAT TTGTTGAATG ACTCATTTTT
30841 CTGCAAAAGT CTGAGAGAGA CAGGGAATAT AAACCTAAGT CTGGATAATA TGTTTTCCCG
30901 GGACGCTCTT CCTGGTCTGC TGTGCTGTT TGCTGTGCCT GAAATTCCAA AACTCTTCC
30961 CTTCCCTCCG TTTTAAATCC CTTTCAACT TGCTACAGCT TTAGAGAAAA GAACATACGT
31021 TTTGTACAGT TGGGGATTAA TTGAAGTGTA GGGCTAATAC TTGATTAAAG TCATTACAAA
31081 ATCTACAGGG TCTTCTCTG GGAGGTTTTT GTGATAAGAT TATTGGTGTG AAAATAAGGC
31141 TAATCCCCTT GAAAAATAAA TAGAATAGCA GAATTGGGTC TGAATGTGGT TTGAAGAAAG
31201 GGACTTCTCA ATTCAAAATT TTATTCTTAG CTTCTGTGAG GAGCTTTCCA GAATGCCCAT
31261 AAGATCCACT TTTGTTTAAA AAACAAAAAC AACCACACC ACCACTCTCT GGTAAATAAA
31321 TGAATTTCTA TTGGGAATAT TTAGAATGGG GCTGTGGCCT GTGAGAGACA TTATATAGTA
31381 ACCTCAGACT TGCTCACATG AAGAGAAGAA ATCCAGGAAT GGAGAAAAAA GACCCAGGAA
31441 AGGCCAGAAT GCTCTACATG TCATATTGTT TGTATCACTT CTGAAATAAT TGATTACATT
31501 CTTCTGCCCC AAATTGAGTT CTTAGGTTCT TCCACTCACT GTCCACATGC CACAACACAG
31561 ACCTTATAAC TAGAGACTTA GCTAGGAAGA AATGTCAAAC ATTACAGAGA AAAAATGCAG
31621 AGTCTGAGAT CATAAGTAAA ACTCTGAAAT CTCAACATGC CTTTAAATTC ATGAAAATAA
31681 AAAATATAGC AGCATATGCA ATATGATAAT TCTCTGAAAA CATACATCAT GTGAACCTACC
31741 CTGGAACACA TCTCGCCAAG TGCCATCTTC ATTTAAACCA GAGGTCTAGG ATGCCTTTCC
31801 TTTATTTTGC CTATTATATC ATTTATAAAA CCCCATTTTT ATTTTGATAT TTTATTTACT
31861 TTCTATTTCC TGCTCCTAAT ATCTCCTTTC TAAACTTTTC TCAATGACAG TGACTCAAAA
31921 ACAATGAATG TCAGAACAAA TATTTAAAGG ATCTGTACAT GTAGATATAT ATATTTAAAA
31981 TGGATTCTTC CACTCTGGGA AGAATTCAGG CATACTCAAT CTTATGGTTA GGGAGAGATT
32041 AGGCTCACTC GCCTAATCTG TATGGCTTCT CGTTCGCTTT CCATTTCAAC TTCCTCTCAC
32101 CCATCAGATC AAACCTATTC ATTGAACAAG AGACCTAAGC CCTTCAGATT AAAACTCTGC
32161 AAACAAGTTG TGGTTGAGAG GATACATGAA GCATTCAAAC AAATAAATCT ATGATATTAA
32221 TCAGAGGTTA ATCTATGATA TTAATCAGAG GTTAATGCAG TGGCTCACGG CTGTAATCCC
32281 AGCACTTCAG GAGGCTGAGT TGGGAGAATC GCTTGAGCTC AGGAGTTCAA GACCATTTTG
32341 GGCAACATAG CAAGTCTTCA TCTCTACTTA AAAAAAATA ACCAGAGGTG TTATGAAAA

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32401 ATAAATTGTC CAGAACTACC CTCCACAAAC TAACTCTCTC AGAATATTCG ATATGAGGAA
 32461 TGAAATATGG TGTGTGTGTG TGTGTGTGTG TATGTGTGTG TGTGTGTGTG TGTATGCACC
 32521 TATATATGGC ACCTATATAT TCAACAAACA ATTCTGATAA TTGGCCAGGG TTGAGAATGA
 32581 CTAGCAGCCC AGCATACACT ATCAGTTTAA AGTATATAAT TGCGCTTTAG TAAAATGTAA
 32641 AGAAATCCCA GAGTAGAAAT ACTTTTAAGC TATATTACAG GTGAGAAAAT GCATAAGTAT
 32701 AGTCTCACCC AACTTAGACT ATGGGGGCTT TATAATGTCA CAACAGTTGT TTCCAGGCAT
 32761 TTGGGGACAT CACCACCTGGT CTGGGGCAAG AAACCTCTCT AGCCAATGGC TGATTTATCT
 32821 CACTCCCATC TAAGGCCTCA CTGCATTTCT CTTTTTCAGC AACCTAACTT ATTTAAAAAT
 32881 ATCCATTTTC TGATTCATTT TTTTCTGAAT TAAACTGTCA GTACCATTGG CACACCTTTG
 32941 GTTCCGTAGC ATACCTGTGT CTCTGCTGTG GTTTTTTTTA CCTCCACTCC TTACTTTTCT
 33001 AGAAAAAAT CTCTGCTTTT TCTTTTCAGT TTAAATTATT TCACAAAAAG TTTTCTTGAC
 33061 TTGCACTTCC TAGGCTTGCT GTCCTTGTGT GGGCAGCTC CCATAAACAC TATTAATACA
 33121 CTTTCGATTTG TTAATAATAA AGATATCTGG ACAGAAAATT TCTTTTCTTT TTTTAAGATT
 33181 TTAATAATTT TAATGTTTAT TTTTTTCTTA GACTGGAGTA CAGTGGCACC ATGATGGCTC
 33241 ATGGTAGCCT ACACTTCCCC GGGCTCAAGT GATCCTCCCA CCTCAGCCTC CCAAGTAGCT
 33301 GGGACTACAG GTGTGCACAA CCACACCTGA CTAATTTTGT TTATTTGTTT GTTTTGTTTT
 33361 TTGAGATGGA GTTTCGCTCT TGTGCCCCAG GCTGGAGTGC AATGGCGGGA TCTCGGCTCA
 33421 CCGCAACCTC TACCTCCCAG GTTCAAGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG
 33481 GATTACAGGC ATGCATCACC ACGCCCAGCT AATTTTGTAT TTTTAGTAGA GACGGGGTTT
 33541 CTCCATGTTG AGGCTGGTCT GGAACCTCTG ACCTCAGGTG ATCTGCCCCG CTCGGCCTCC
 33601 CAAAGTGCTG GGATTACAGG CGTGAGCCAC CACGCTCGGC CACTAATTTT GTATATTTTG
 33661 TAGAGATGGG CTTTCCCTGT GTTGTCCAGG CTGGTCTTGA ATTCTGGGC TTAAGTGATC
 33721 TGCCACCTT GTCTCCCAA AATGCTAGGA TTAAGTGGGT GAGCCACCAG GTCTGGCTGG
 33781 AAAGATAATT TCTAACATTA TCCTCTCTTA AACATTTGTT TCAAAAATTT TACAAACATG
 33841 AGAGTAATTA AATTTGATTT TCAAAATTTT CTTGAATACT TTCTTAATAG CACACAGAAA
 33901 GCACAAAGTA TTTTACATTT TTTTAATGA TGAAATTGTG AACCCAAACT GTACAAAGA
 33961 AAAACCGTAA CATTATACCC ATACTTAAAA CAGATGCCCT CATATACATA GTAAAACTCT
 34021 TGGGGGCGAG AGTGAAGTTG GTTATTTACT GTTTTATGAA AGTGCCATTC AGCCGGGTGC
 34081 AGTGGCTCAT GACTGTAATC CCAGCACTTT GGGAGGTGCG GGCAGGCTGA TCACGAGGTC
 34141 AGGAGTTCAA GACCAGCCTG ACCAAAATGA TGAAACCCTG TCTCTACTAA AAATACAAAC
 34201 ATTAGCTGGG CGTGGTGGTG TGTGCCTGTA GTCCAGCTA CTCAGGAGGC TGGGGCAGGA
 34261 GAATCGCTTG AACCTGGGAG GCGGAGATTG CAGTGAGCCG AGATCGCACC ACCGCACTCC
 34321 AGCCTGGGAG ACAGGGCGAG CTCCGTCTCG AAAAAAAAAA ACAAAAAAGT GCCGTCATAG
 34381 TGACTTAGTT TTAAGGAATA AATCAAGGAT ATTTAACTCA ATAGACTACA GTTAGCTAAC
 34441 GTGACTTGCA CTGAAAGTTA TACGAATATT GGTACTTATT CCCCTGCCCC TGAAGTATGA
 34501 ATTAAAGACT CCAAAATCTT TTTTAGAATC TTCAGAGTAA AAGCTAGAAT TTGATTTTTT
 34561 TAAATAATAA AAAAATACTT TGTATCTAAA TCTGGTGTAT AAAATAACTT GGTGGATGAT
 34621 GCTTCAAGGC TATCCATCCC CAAATTTCTC CCTGAATGAT AAAGAGAATA AATGAATATG
 34681 TCAATTCAAA AGTTAGAAAT TTGGCCGGGC ACGGTGGCTC ACTCCTGATA ATCCTTTCGG
 34741 ACGCTGAGGT GGGTGGATCG CATGAGCTCC GGAGTTCAAG ACCAACCTGG GCAACATAGC
 34801 CAGAACCCTG TTCAATAAAT AATAGAAAAA AATGAGCCAG GCGTGGTGGT CCCAGCTACT
 34861 CAGTAGGCTG AGGTGGGAGG ATCACTTGAG CTCAGGAGGT CGAGACTGCA GTGAGCCGTG
 34921 ATCGCAGTAC TGCACACCAG CCTTGGTGTG AGACTGAGAC CCGTCTCAA CAACAACAAA
 34981 ACAAGTTAGA AATTTGGCTG GGCGCGGTAG CTCACGCCTG TAATCCCAGC ACTTTGGGAG
 35041 GCCAAAAAGG GCGGATCATT TGAGGTCAGG AGTTCGAGAC CAGCCTGGCC AACATGGTGA
 35101 AACTCCATCT CTAATAAAAA TACAAAAAAA CTTAGCCGTG CATGGTGGCA TGCGCCTGTA
 35161 GTCTCAGCCA CTTGGGAGGC TGAGGCAGGA AAATTGCTTG AACCCAGGAG GCAGAGGTTG
 35221 CAGTGAGCCG AGATCATGCC ACTGCATTCC AGCCTGGGTG ATAGAGTGAG ACTCCATCTC
 35281 GAGAAAAAAA AAAAATTTCT GTATGAACTG AACAAAATAT CCTTAAATTT TAAAATACAT
 35341 CTGAAAGATA TTTCAAAATA TTTAGGAAAA AAATTATAGG GATCAGGCAA ATTCTGAGAT
 35401 TCCTTTTTTC CTGCAGCAAA CATTAGGAGT GCTGCTGTTT CTAACAAACAT GGTAAGTGT
 35461 GCCACACCGT ATGTTTCCTT GGCTCAGACA TAAGGTTGTG TAGTTGTTAT TCCAGAATAG
 35521 CTAGAATAAA AATCCAGCAC ATCATTTTCT TCAGCAAGTT AACTAACCTC TCTGTGCCTT
 35581 GGTTCATATA CAGCAACATA AGCATAACAG AATAGCAGCA ATAGCTCCTA CCTACCTCAT

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35641 AAGATTCTTT GGAAGAATTA AATTAAGATT CAGAACACAG CCTAATATCT AGTAAGTAAT
35701 AATAATTGGC TAAAAAATT TTCTTAAGAT TATATATATT CATGGGGTAC AAGTACAATT
35761 TTGCTACATT AATATATTGC ATTGTGGTGA AATCAGGGCC TTCAATCCAT CCCGGAAAAA
35821 AAAAGTTTTT GAAAAGATTT CTGCCATGGA AAACCTTTTAA TGTACAAATT CATCCATCCA
35881 AGAAATAGAA AATATATAAG TATCAACTCC AAATCCACCA TATCTATCTC TTCTGCACCT
35941 TAAACAATTA CTCAGAAATA GAATGCTTGA GATACCAGAA TGCATGCATA TCAAGTAATA
36001 AATGCATGCA GGATGTCAAC GCATCCTAGG CTTTCAAATA AAATTGTCAT ACAAATACT
36061 TTAATATTGT AGTAACATTG TACATGTTAG AGTGTTAGAAG TTAATCGCTG ATGCAAAAAA
36121 GGAAAAGAAC ACATTATACC CAAAGCCTAC AGAGAGAATC ACAATTACAA ATATCAGCCT
36181 GCATGTGAAA ATCTTTAATT TGAAAGTCAG AAATATTTAA ATGATAGTCA TTGTTAAATC
36241 AGATTGTGGT TTGAAAAAAA GTTAGTTTAA AACTGAGTTT ATGAAAAAT TGGGGATTTT
36301 AGAGACAGTG TTTTGTTTTT AAATGTGTGT GAGTTTGTGA AGAATGTTTT ATAAATACT
36361 GACAGTATTA TAAGATGACA TTATTATAAT ACAACATAAG AATTTTGGCC TGTACCTCTC
36421 AGCAGTCCTC AATCACCTGC TGTACTTGAC TCAATGATTA TCAGAGTGGT TTGTTTTCTC
36481 TCTGTTGTGT TCCCAGTTCA GGCAGCTCAG CAATGGCCTG TGATTCCAGC AATTCAAATA
36541 GCTGGTAAGT AGTTTCTTGT TTGTTTCTC AAATTTTCAG GGGCTTTTCT CTACAAGTGA
36601 TTTCCAGTGC ACGCCCCTCC ACCCATCTT TATTCCTTTA CCTTCAGGAA AACCCCTCAGC
36661 GCTGCATCTC TGGTCACCGG ACCACCGTGG TAGATTTACC TATGGCCACC AGGTGTCACC
36721 CTTCTCTTTA CTACCATGGT TTGTGAATGG TTTTGCCAGA GGTGAATAAG AATTTAAAT
36781 GCAGGTCTTT GATTTTTTCAA ATGTAGTTGA CCTTAAGAAT TTATGAATAA AGCCAGAAAA
36841 ATTAAGCTTA AAAAACACCG AAAGAAAATG AGGACTTAA ATTTCTATTA AAAAAATTAA
36901 CAGGCCACAG TTGCTGATGT TTAGTAAATG TGTTAGTGAA ATGTGTTACT GTGAAGACTG
36961 GGGTGTCTTCT TGAAATCTCA GCCCAGGTGA AATAAAACCA ATATAAAACA AATGCTTACC
37021 TAATAAATTA ATTGTAACAT ATTCCTTAG AGGTAGAAGA GTAAGTGAAG CCTTATAGCA
37081 GTCTGCTTTC AGTATAGTAA GATATTAAGA GAGAAATAAT TTGTCATAG CTTTGAGAAT
37141 GGTGTTGCTGG TAAAATAACC ATGTGCTTAC AACTTAGACG ACAATGCTCC TTAGCAGGAG
37201 AAACACGATT AATTCGGCTA CCACAGTTGA ATGAAAATAT TCCGTAAGAC AAAATGTAAA
37261 GAAATTAGAA GCAAAATAAA TGTCTCCAAA ATGACAAAGC GATTAAGTAT ATACACAAGA
37321 TGAACAAGAA CTTCAATAAA ATCATGCAGT ATACAATACA ATGTACATTT ATTAAAGTAT
37381 ATGCATTTTT AATGCAACAA TAATACTAAC AGGTAATAGA CAAGTTGTTA ATAGTTTTTC
37441 ACTGGCTAAT TAAATAACAG CTTTAATTGT ATTCATTTTA TAGCTTTTCT ACAATGAGCG
37501 TAAATCACAT TTACTTTTTT CTACATAACT TTTCTAACCA CAAAAAAGA AAATGGTTTA
37561 AAAGAAGAGA TGAGATATCT TTGCTAAAAT TTAATGCCTA AAGAAGAAAC TTCTGAGCTG
37621 TATATGGTAT CCTGAAGCAC CTGCCCTTCA AGACAGAATG CTTGTACCAC ATTTATGCAG
37681 CCAAGTGCAT GTAGTAACAT AAAGTAAACA CATGCCATCT GGATATATAT ATTAAGACTC
37741 TTTTGACGGC TGGGCAGGGT GGCTCACACC TGTAATCTCA GCACTTTGGG AGGCCGAGGC
37801 AGGCGGATCA CGAGGTCAGG AGAGTTCGAG ACCAGCCTGG CCAACATGGT GAAACCCTGT
37861 CTCTACTAAA AATACAAAAA TTAGCCGGGC ATGGTGGTGC ACGCCTGTAA TCCCAGCTAC
37921 TTGGGAGGCT GAGACAGGAG AATCGCTTGA ACCTGGGAGG CAGAGGTTAC AGTGAGCCGA
37981 GATCATGCCA TTGCACTCCA GCCTGGGCAA TAGAGTCTCA AAAAAAAAAA AAAGACTCTT
38041 TTGAACATGG TGAAGTATT TCCCAGAATC TAGCAATTCC TGAATGTCCT GGTAGATTT
38101 TTTTTTTAAT GTGCACCGGA ACCCCAGTGG CTCCATGGAA GGACCTGGGC ATCCTCTAAG
38161 CCACTTGGTG GCTTCCATTA TACCATCTCA AAATGAGAGA GCTTACTCCA CTTCAATTGAG
38221 GGAAATACCA CCAGAGTTCT GACTCCAGAG GCACTGGCCT AGGGAGGACA CCGTGTGTGA
38281 AGCCCAGCAG GGCCACTAGC TGTCCCCACC AATTACAGTC CTTGCGTAGG GTCCAAAGAA
38341 ATGAATGCCA AAGAGAGCAA CAGAGGAGCA AGGGAGTCAC ATTCCAGGAC CTTCTTCAG
38401 GGACTTTTAA AGGAAACATG ACAGCTGAGG ATCAGTTGGT TGTTTTCTGC TGTTCCCTT
38461 CATGTGATTC AAGCTCATTC AGAAGAAACA CAATGAGACA AGAGAAGAGC CATCTCCTTC
38521 CTTCTCTATT TATTCTAGGC ATCTAAACTA CTGAATGTAG TGGTGTCTGA GATGTATCAA
38581 ACGGTCAGAT TGACTGAGTT TGAAACCTGT TTCTATCACT GACAACTAT GAGATACTCT
38641 ATACTTCACT TTCTTTTTTT TTCAATTTT TTATTTTTAT TTTTATTTTT TTGAGATGGA
38701 GTCTCACTCT GTCACCTAGG CTGGAGTGCA GTGGCGCAA CTCGGCTCAC TGCAAGCTCT
38761 GCCTCCTGGG TTCATGCCAT TCTCCTGCCT CAGCCTTCCG AGTAGCTGGG ACTACAGGCG
38821 TCTGCCACCA CGCCCAGCTA ATTTTTTGTA TTTTATTAG AGATGGGGTT TCACCATGTT

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38881 AGCCAGGATG GTCTCGATCT CCTGACCTCG TGATCCACCC GCTTTGGCCT CCCAAAGTGC
38941 TGGGATTACA GGCCTGAGCC ACCGTGCCCC GCCTACTTCA CTTTCTTCAT TTA AAAAAGA
39001 AATGGGGATA ATAGTACCTA TCTCATAGAA TTATTGTAAG AAGTGCATGC AGTAATGCAT
39061 GTAAGTAGGT GCTCAGAAGA GTCGGACACG AAGTAAGTGC TTTTATCATC CTTATCATAA
39121 TTTTCATTAT CAGAACAAGG AGAGACCAGG TAGAAAATTA TTGTGATTCT TCAGGTCTGG
39181 AATACTAGAG TAGCATCCCA AATGAAGGCA CCATTAAACT TGCAAATCT GTATGACACC
39241 TTCATGCCAA TTAGAAAAAA CACCTCTTCA CAACCCCTTT CAAGATATTT GCCTCCTACC
39301 TGCTAAAAAC ACCCATCATA CTACCCACAG ATAGCCATGA TGCTTTTCT GGGACAGGTG
39361 CCTCTTCCAT TCGTGCACTG TACAGCCTTC ATAGCTGTGC AACTCACATC ACAATCAGAT
39421 GGAAGAATCC CCAAGGCTTG GTGACAGATG AGTTACTGGG TAACACAGAG AGAGGATTCA
39481 AAGGAAAAGT TGAACGGGTC CAGAAAATGC ATAGATACAT GTGTAAAAAT CTGGTAAGGT
39541 TATGACTAGC CACGTCCAG GGTTCAAAGC TTTTCTCAGA TGTTAAAAAT AATCATGTAA
39601 GTCCCCCAA TTTAAGGAGT CCTCTTCCAA AAATAGGAAA TGAAATGACA TAGGTGTATG
39661 TCTCTGAGGT GACGGAGGAA ATGAAGGAAG CCTCTAGATG CAGCTTGAGG TTCATGAGAG
39721 ACATGTCAG GGGAGAGGTC ACAGCTAGGG ATCACCAGCA TGCAGGAACT CAGAAACCTA
39781 AATGGGGAAA TCTTTTGTAG GAAATGAACA GAGAAGGCTA AAATCAAGGA GTTCGTCAGG
39841 CAATTTCTAT GTTTAGGTTT AACTCTCTCC TGAAACATGA AGAGCTCATA AATGCACTCC
39901 CTCTTTGAGT CTCTAGTTTT GTCTCCTTCC CACAGTGAGT CTGCAGGCTG CGTGTCACTC
39961 ACGTTCAGCT AAGACGTAGT GCCCCATGGC TCCTCCTGTG GAGACAAGAG ACCCAGGAAA
40021 GAGGCATCAC AAACCTAGGC ACCATCTTGC CTCTTCTCTC TTCCTTATTT TCCTCATTCA
40081 CCCATCTCAA TTTAGACCTG GGCACATTG GATTCAAGA ACCATTATCT CTCATCTGGA
40141 AATGCTTATT GGCTTTCTAA CTGGTCTCCT CACCTCTCAT CTAACCTCTT AACAACACAT
40201 TCACCATATA AGGGAGATCG TGGTCTCCT TTCTTAGGAT CTTCAATGA CACCCAGTG
40261 ATCATAACCC AATATCCCA AAGACCCTTG GACTCTGTAT GAGCTGGCTT CTTTCTGATT
40321 CTCTTTTCCC TACACCACAG ATGTTCAAGG GGTAGAAATG CATAATTGGT GAGTGATAGC
40381 TAAGCAAAC CAGGGTTAAG GTACAGTAAT TATTTCTAAT CTCCAGTAT GCCTTATACT
40441 CTCCTACTTG GCATGGTTGC TCCGTCTGTG TAGACCTCCC ATCATCTTCA ACCTCACCTA
40501 ATGGAATCCA GCTTCTCCTT CAAGATCCAG AAGGCTATCT TGATCCCCAG CTGAATGTGA
40561 TCATTCTTTC CTTTGACACC CTAAGCATTT GCTTCCTGCC TGCTTTAGGA CCTCATGGGG
40621 TCTTCTTTAA CTACATTTAC TTGCTATCAA TTTCAATCCC TACCAGATTT GGGTCTGAG
40681 AATAGCCACA GTGACTTCTC AACCTCAAAG CCCCTGTACT ACCTTAAACA GCTCTGCAA
40741 AATAGTAGGT GCTCTGAAGA TGTTTGTGTA ATTAGAGACT TTCATTCTGG GGAGAACCAT
40801 TATTTTCTGT CTCCAGGGA GCTGCTGGTG TCCCCAAAGA ATATAAATGA GAAAATGCT
40861 TCCCATGGAT GCCAGATCCC CTCTGCCCT CTTCCCACTG TGCCCTGGGG CAGAGGTACT
40921 AAGAGACTTC CCCCTTGTTC CTACTCACTT GAACCCTGCC TCTTCTTAA TATTATGAAC
40981 AAAATTCCAA TGAACAAGAT GACGACAAAA ACAGCAATTC CACTGATGAC TCCAATGACT
41041 AGGGTGCCAG ACGGTGAGGG CTCTAAACA GAAAAGCAA GTTAAAGCCT TTGATTGCCA
41101 CCCTCAGCCC ACCCCCTAAC AAAGAGCAGA TCCTCATCTC ACTGCCATAA TTACCTCCTC
41161 AGGCACTCCT CTCAACCCCC AATAGATTTT CTCAGCTCCT GGCTCTCATC AGTCACATAC
41221 CCCAGATCAC AATGAGGGGC TGATCCAGGC CTGGGTGCTC CACCTGGTAC GTATATCTCT
41281 GCTCTTCCCC AGGGGGTACA GCCAAGGTTA TCCAGCCCTG GTAGGTCCCA TCCCCATTGG
41341 GCAATACGTC TTTAGGTTCT AACTCCTTGG CATCCATTGG CTGCTTATCC TTCAGCCACT
41401 TCATGGTGTG GTTCTGGGGG TAGTAGTTCA AGGCCCGACA CCGTAGAGTG GTCACTGAAG
41461 AGGTACATG ATGTGTCACC TTCACCAAAG GAGGCACTTG ACAGGAAAGA GGAAGGATGA
41521 GGAGAGGGGA TCTGTTTACC CTTGCCAGGA AGACTGGAAC TTTCACTTCC TTCTATAGGT
41581 TGGAGGAAGG AAATACCTT TTCAGAAAAA AACAGCTAC AGGAGAGACA CCATTTTGTG
41641 TCCTAAGATT GGACTCTAAC ACAGTGTAC TTGGAGAGCA GTCAGATCAG CTTGTTCTCC
41701 TCACATGTAA ATATACATAT CTGTTACCCA TGTTCTTTGT TCTGATAGAT AAAATTGCCC
41761 TTTATGTGCA TTGAAATGA TTGAATACAG ATGGTCAGTT TCACCTGGGT CAACCTAGGA
41821 GGCATTGTTA TAAGAAGCGG ACTTGTAAGA TAGGTAGCTT CAGTGATTAT TGCTATGTTT
41881 TATGAAAGAA ACTTTTAACC TAAAGGATTC TTCTACTCTG ATAAGTGGCC TCACTTGATA
41941 TTTTGTCTTG GTATTCATAT GATAGCTGAG ATCTCTGAAT TCTCTTTTTT TTTTTTTTTT
42001 TTTTAAAGAT GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT
42061 CAGTGCAACT TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT

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42121	GGGACTACAG	GTGCGCATGA	CTGTGACCAG	CTAATTTTTG	TATTTTTTTA	GAGACGGGTT
42181	TCACCATGTT	GGTCAGGCTG	GTCTCAAAC	CCTGACCTTG	TGACCACCCG	CCTCGGCCTC
42241	CCAAAGTGCT	GGGATTACAG	GGGTGAGCCA	CCGTGCCCCG	CCTTGACATT	TCTGAATTTT
42301	TAACAGGTAT	AAATATACAA	AAGATTATTG	GTTAAATAAA	AAGCAAGGGC	CATAGACACT
42361	TCCCTTTGAG	CCATATGCAT	GGAGAAAAGA	AATTAAACCC	ATGACTTGTTG	GCTGTCTCAT
42421	ACATCTCAAT	TATAAGGTAG	AGACTCTAGG	ATTGAGAAAG	TCCCTTCCCA	GAATTTGGAG
42481	AGGCACACAG	CCTCAGCCAC	CTCTGAAACT	CCAACCAGGG	ATTCCGTGCC	CTGCAACCTC
42541	CTCCACTCTG	CCACTAGAGT	ATAGGGGCAG	AAGTGTGTTT	CCACCATACC	TTGTTGGTCC
42601	AAAACACCTC	TCCCCAGCTC	CAGCAACTGC	TGCAGCTGTG	CAGGGCAGTC	CCTCTCCAGG
42661	TAGGCCCTGT	TCTGCCTGGC	CCGAATCTTG	TGCCTTTCCC	ACTCCAGCTT	GGTGGGCCAG
42721	GCCCTGGGTT	CTGCTGCTCT	CCAATCCAGT	GTGTCAGGGC	AGAATTCAAG	GTGGTCTCTG
42781	CCATCATACC	CGTACTTCCA	GTAGCCCTCG	GTACTGTTGT	CTTCTTGCA	TTACAGCCCC
42841	AGGATGACCT	GCAGGGTGTG	GGACTCTGGA	AAAATCCCCA	GCCTTGTTAA	CTGCAACCAA
42901	AGGAATAGGT	CCCTATTTCC	ACCATCCCCA	AGGACCAAAT	GATCTCAGGA	AGCAAATTC
42961	TTCCCTCTTC	CCTGCTCCCA	CAAGACCTCA	GACTTCCAGC	TGTTTTCTTC	AAGATGCATG
43021	AAAAGATGAA	AAGCTCTGAC	AACCTCAGGA	AGGTGAGGCC	CCCTCTCCAC	ATACCCTTGC
43081	TGTGGTTGTG	ATTTTCCATA	ATAGTCCAGA	AGTCAACAGT	GAACATGTGA	TCCCACCCTT
43141	TCAGACTCTG	ACTCAGCTGC	AGCCACATCT	GGCTTGAAAT	TCTACTGGAA	ACCCATGGAG
43201	TTCGGGGCTC	CACACGGCGA	CTCTCATGAT	CATAGAACAC	GAACAGCTGG	TCATCCACGT
43261	AGCCCAAAGC	TTCAAACAAG	GAAAGACCAA	GGTCCTGCTC	TGAGGCACCC	ATGAAGAGGT
43321	AGTGCAGAGA	GTGTGAACCT	GGAGACAGAG	CAACAGGCCT	TAACCATGTG	TAGTAGGAGG
43381	GGAGCAGGAT	GTTGAGGCTC	CACACACCTG	CATCAACTCA	TACCATCAGC	TGTGTCTGGT
43441	CCTCATTTTG	TGAAGGGTGA	GTTGCAGTCC	TGTCCTTCTT	CCATATGACA	GTCCTGGGTG
43501	CTCTTTCCTT	GTGTGCTTTT	CTCTGCCACA	CGTGGCTGCC	ACCCCTCAC	TGCCCCCAGA
43561	TCCTATTCCA	ATACTCATGA	TTAGACAGAC	TCCACTAAAG	CTGGTGGATT	CTAGAAAATG
43621	TTAAGGTGTG	TCTAGCCATG	GTAGTTGAAC	TCAGGAGTTG	GTGCTCAGGG	CAAATTAGAC
43681	CCAAATCCTG	AGGAATAATT	CCTTCAGTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT
43741	GAGACAGAGT	CTCACTCTAT	CACCCAGGCT	GGAGTGCAGT	GGCACAATCT	CAGCTCACTG
43801	CAACCTGCAC	CTCCTGGGTT	CAAGGGATTG	TCCTACCTAA	GCCTCCTGAA	AACCTGGGAC
43861	TATAGGCGTG	CGCCACCACA	CCAGGCTAAT	TTTTGTATTT	TTAGTAGACA	TGGGGTTTCA
43921	CCATGTTGGC	CAAGCTTGTC	TCAAACCTCT	GACCTCAAAT	GATCTACCTG	CCTCAGCCAC
43981	CAAAGTGCTG	GGATTACAGA	AGTGAGCCAC	CGTGCCCGAG	CTTGGTCTTG	AATTCTTACA
44041	CTGAAGTCC	TATGTGGCCT	CACCACTTGG	AAGCCTGACT	GGAATCTCAA	ACTTAACATG
44101	TCCAAATGCA	GATCCTTGAT	TTACCCCAA	CTGCTCTTTC	CTCTGCCTTC	ACCATCTCAG
44161	AAATGGCATT	GCCAAATACC	CCACTGCTCA	GGCCAATAAA	ATTAATAATA	AGAACAAGT
44221	CAACTTTAAC	TCTTCTCTTT	TTCAGGGGGT	CAGGGGAGAC	AGGGTCTTGC	TCTGTACCT
44281	AGGCTGAAGT	ACAGTGGCAC	AGTCATGGCT	CACTGCAGCC	TCAACTTCCT	GGGCTCAAGC
44341	AATACCCTCC	ACCTCAGCCT	CCCGAGTAGC	TAGGATCACA	GGTGCATGCC	ACCACACCCA
44401	GCTAATTTTT	GTATTTTTTG	TAGAGAAGGG	GTTTTGCTGT	GTTGCCCAGG	CTGGTCTTGA
44461	ACTCCTGAGC	TCAGGAATCT	GCTCTCCTTG	GCCTCCTCCT	TGGCATGAGC	TACTACACCC
44521	AGCCAATTCT	TCTCTTCTCT	TCACACAACA	TAGAATCCTT	CAGCAACTTC	CTTCAGAATA
44581	TATTCAGGAG	ACAATGGTTT	GTCACCTCCT	TTTCTGTTCC	CACCCAGCCC	ACTCCACTAC
44641	CTCTTGCCCTG	GACTGTGTAA	CAGCTTCTCT	GCTGGGCTCC	CTGCTTTTAC	TGTTGCTCCC
44701	TTCAATCTGC	TTTCCACATA	GCAGCCAGAG	CAATCTTTTA	AAAGCCTGTG	ACAGATCACT
44761	GTTACTCCTT	GGCTAGAATT	CACACCACAG	CCTACAGGCG	CCTGCACAAC	CTTGTTTGTG
44821	GCTCCTCTTC	TGAGCCCAT	ACCTACTTCT	TGGCCTCTAC	TCCCCAGCAC	TACTTGTTTA
44881	TTTTTTTCAA	CCCGAGCTTC	TTAACCAGGA	GTTTGTCTAC	TAGGTGACAT	GTGGCAAAGT
44941	TTAGAGACAT	TTTTGGTTGT	CAAGACTGGG	GGAGTGCTCC	TAGCACCTAG	TGAGTAGGGA
45001	GGACAGGATA	CTGCTAGACA	TCCTACATGC	AGATGGTAGT	CCCCCTTCCC	ACCCCCACGC
45061	CGCCCCCCCC	CCCACACACA	CACACATGAG	TAGTGCTGAG	AAAACCCGCT	TTTTAATCCA
45121	ACTTGCCAGG	CCCACTCAGT	TTGCCTGGGA	AATACTGCTC	CCAGTCAATA	TCATTCTTAT
45181	TTCTTTCATG	TCTCTGCTCA	AGTGTGAGCC	CCAGAGTGAC	TTGCCCTGAC	TTCTCTGCTT
45241	CTCACAACAC	CCATGATTTT	CTGATGTTGT	ATATCTTCTT	GCTCATTTGC	TTATTGTCAT
45301	CTCTCCCACT	AGAATGCAAA	ATATCAAAGG	GTAAAGACTT	GTTTCCCTGC	TCTCTCCCTT

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45361 GGGGCTTGAA CAGTGCAACA CATGGCTGGG ACTCATTAC ACTTGTAAC AATGAATATT
45421 TCTGCTCAAC ATGAAATTTT ATTATTCAAC CTCTAATGCA GTGTGATGTT TAAGAATCAT
45481 AGCTATGAAG TGGAGACATG AGCTCTGCCA CCAAAGCCCC GTGTACCATT GAATAAATTT
45541 GCCAGGAAGC AGGCCGTGCC ATGCCTCATT CTTGTCTATGT GTAAAATGTG GATACACGTA
45601 GTACCAAAAC TCAAAGTGCT GTGCTGAGGC CGGCCGTGTGA CCCACAGAAC ACTGTGCTAC
45661 ACTACAGGGC AAAATCACTG TCAACTAAGA TTAGAAGCAG CTGTAGTACT TGAAATAACA
45721 TCAGAAAACC AGATTATTTA TGTTCTTTGT AACCTGAAAA GAGTTATATA ATCTGAATTC
45781 CAGTTAACTT CTAGTAAAAT AAACGTATTA TTAGCTCCTA CCTCCCTATG CCTAGTGAAA
45841 ATCAAATAAG ATCAGATATG AATGTAACCT AGAAGTGAGT GCATTGCTTA CATGTTTCATT
45901 ATCAGTACTT TGTAAGAGAG CCTCTTAATT ACACAGCACA TTGCAAATCA ATAAAGCCTA
45961 GCCGAAAAGA GAATTGTTCA GTTCAAACGT TCAAACTAA CATATACTTA ATTTTCCAGG
46021 CAAAAGAACA ATTGCCAAGA GTGGGGAAAG GCCCAGGTA GGCCTCTCTC AGGAGCCTCC
46081 CACCTAGAG ACCTCCACCC CAGGTCTCAC CAAAAGTGGG TGGAAATGGT AAGAATTCAG
46141 ATCCCCAACG CCACTCTTTC GCGCCCCAC CGCCCAACGC ATTCGTTCTG AGGTGGAAC
46201 CCCGTGCGGA TCCTGCTGTG GGTTTGCTCA GCCTTCTCGG CAAGCACTCA GGAAGAACT
46261 TCCTGTTTGG AGATGACTGG GGAATAAAGT GCACAGCTGA CATTGGAAT AAACCCGAGT
46321 TCCAGGTTCA AGGAGCCCCA GGCTTAGCTC AGCTCAAGTG AGGAACTACG AGATTATTTT
46381 AAAAGCATTTC TAGTTGGGGG AAGGGAGTGG GCGGTTCCAA AAGTCACTCC GCAGAGCCGG
46441 GACAGCCGGG GGAGGGGGCA GGTCTTGGGG CGAGGGACCC CTATCTGCAG TTCAGTGGTA
46501 GGCACCTCCCT CACGGGGTCT GGACGCAGAA AGTAGGGAGA GGGGCTTGCG GATTGGGTTG
46561 AGCAGGTCCCT CCAAAGTTAG CAACTCCCA AGCGCAAAGA AAAAGCTAGT TTCGATTTTT
46621 CCACCCCCGC CGCGCCCCTA GTTCGCCCCG AGCCCTCGGA CTCACGCAGC AAGCGCCCCCT
46681 GCAGGACCGC GGTCTGCAAA AGCATCAGGA GGAGAAGCGC CGGCCTGGCT CGCGGGCCCA
46741 TTTCCCCAGC TCTGGCCGCA CGTCCCGTT AAATCTCCGC TTCTTTTGGG GGGCGGGGAA
46801 ACGGGGATGG CTCCAGAAGT CACCCTACAG CTATTGCCTA GGCTCAGGAG ATGCCAGTA
46861 AAACCTTCTG GTGAAAAGCA ACAGGTCTTT CAGAACTTTA GTTCTCTCTC TCCTACAGCA
46921 GAAGGTACCT GCTTGTGAAA CACTAGGTGA TCCAGTGTCC CCCTTGTTT TTAATCCTG
46981 AAGGGGTGTT GTTGATTGGG GAAAGTAGCT TCGCAATGTT CTGATCTGAA CTTTAGATAT
47041 TTAAATATTT ATGATTTTCA AAATTCAATC ATACATTTAA AAATTTTATC TCAACCTTAG
47101 ACCAACTTAT GTCTTATTTG ACTTAGAAAT ATAAAGCTTT TTCATTTTGT TTTTGTATTC
47161 AAATTAATTA AGTCATAACA TTAACCAATT AGATCCTACT GAAACACGTT CCACAGCCTT
47221 CATAATTGAA TTATCTGACA AGTGTTCAC AAACCTTACA GTATTGGGAT TATCTGGAGA
47281 ATGATTAAAC ATATTGAGGC CTGCTCCTAA CCCCAGACAC ACTGATTTAA TGGGTAATTG
47341 TTAGGTAGTT AGACATTAGC AGTTGGGAGG CGATGACAGA AGAGAGCGGA AAGGCTGTCA
47401 CTAAGACAGC CACTGGCCCA CCTAAATTCA GGCCTAAGAC TACCCTAATG CCACCTTAAG
47461 GGATGGAGTT TATGATAAAG TCTGTGGCCA AAATATCCTG GAGAAAGAGA AAGGAGGGTA
47521 CAGGTGGAAG TTCCCTAAGG TGGCACATGC CCAACAACAC AAAAGCCTGT CTTCAAGTTC
47581 ACCCCAAGTT CATCATGCCA TCATTATAAT AGAATTTACA TACAGTTTTG CCCCCCATC
47641 CCTGGGAGGC TTTTCTTAAC AAATTATAGG TAAGACCATG CACAGTTTAA TTTTAGATTG
47701 TATAGCTATA AACTTCAATC AAATAACATC ATCCTGTCAC TCAGATACAG CCCAAACCTC
47761 AACTCCTCCC CACAAACCCC ATAAAGCAC CTTGAGCTCT GTAAAGAAGT GCTGAGTTCA
47821 CTTGCGAGAA ATAAGCCCGC TGTCCTCAG AGTGTATTAT TGTGCTTCAA TAACTTTGC
47881 TTTAAGCTTG CATTTTGGTG TTAGTTTGTG GTTCTTTGCT CACTATCACA AGAACTGAGA
47941 TTGCTGCTTC AGAGCTCCGG CTATAATAAT CTCCTCGGT AAAGGATCCA TCCCAATGCA
48001 TAATCCCAAG TAACAGTATG GGATGCCACC TGGGCAATGG GATTTTAAAA GCTTTCCTTC
48061 TCCCTCAACG AAGTTTGGGA ATTATTGCCT TAGACATTTT AAACAATATT AATAAATTTA
48121 ATACACCTGA TTTGCTCCAA ACCTTTACAT ATCTAGCAAA TTCAACAGGC ATTATTTTTG
48181 TAAGCATGTA TGCAAAATTT GGCAATTCAA GAAAATCAAA CAGGATATCA GGGCCTCGAC
48241 TGTAGGCAAA CAGATACAAT AACATTGGAA ACATGTAGAA TATTGATGAT GGGCACATTG
48301 GGGCTGATAG TACTATTCCT TTTTTCAT TTTTGGTAAG ATATAATTAG CATACCATAT
48361 AATTCACTTA TGTAATATGC AAAAATTTGG CCAGCTCAGT GGCTCACGCT TGTAACTCCA
48421 GCACTTTGGG CGGCCGAGGA AGGCAGATCA CCTGAGATCA GGGGTTTCGAG ACCAGCCTGG
48481 CCAACATGGT GAAACCCCGT CTTTACTAAA AATACAAAAA TTAGCCGGGC GTGATAGCAG
48541 GCAACTGTAA TCCCAGCTAC ATTAGAGGCT GAGGCAGGAG AATCGCTTGA ACCCGGGAGG

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48601 CGGAGGTTGC AGTGAGCTAA GATCGTGCCA TCGCACTCCA GCATGGGAGA CAAGAGCAAG
48661 ACTTCATCTC AAAAAAAAAA AATTAGCTGG GTGTGGTGGC ATGCACCTGT AATTCCAGCT
48721 ACTCGGGAAG CTGAGACAGG AGAATCGCTT GAACCTGGGA GGCGGAGGTT GTGGTGAGCC
48781 GAGATCATGC CATTGCACTC CAGCCTGGGC AACAAGAGCG AAACCTCCGTC TCAAAAATAA
48841 AATAAATAAA ATAAAATGCA AAAATTAAAT GATTTTAGTA TATTTACAGA GATGTGCAAC
48901 CATTACCAAA ATTTTACATT TCTATCTCCC CAAAAAGAAA CCATGTTCCC CTAATTCAGT
48961 ACCCTTAATT CATCGCCTCC CAGATTCTCT CATTCTCCTC CTCCTCCCCT CCCAGCCCTA
49021 GACAATCTTT AATCTACTTT CTTTCTATTT GGAACATTTA GTATACATAG AGGCATATAA
49081 TATATTGCTT TGCCGTGACT GGCTTCTTTC ATTTAGCATA ATGTTTTTAT GTATGTTTTT
49141 CATGGACCAA TAATATCTAT TATAAGGACA TACCACAACA TATTTTATTT ATTCATTCAT
49201 CAGCCGATGG ACATTGGTTT GTTTCTACTT TATGGCTATT GGAATAGTG CTGTTATAAA
49261 CATTTATGTA CAAGTTTTTT TGTAGACTTA TGTTTTGATT TCTTTTGGTT ATATATCTAG
49321 AAGTGGGTTT GCTGGGTCAT ATGGTAACAC TGTTTAACCT TTTGAGGAAT TGCCACATTC
49381 TTTTCCAAAG TAAGCATTTT ATCCTCTTAT CAGCAGTGTA TGAGAGTTCT GATTCTCTC
49441 CATCTTTGCC TGGGTTTTTG AATCAGGGCC CCAGATAGAA CAAAAATGTG GTTATTCAGT
49501 TGTTCCACCA TCACTTGTTG AGAAGACTCT TTTTTCATTG AAGTGTTTTG GCACCTTAT
49561 CAAAAATCAA TCTACCATAA ATGTGAGAGT TTATTTCTGG AGTCTCAATT TTATCCCAT
49621 ATGCTATAAT CTATAATCCT ATCTTTTTTT TTTTGTGACA GAGCCTCACT CTATTGCCCA
49681 GGTGGAGTG CAGTGGCCCA ATCCCGGCCA CTGGCTCCTC CTCCAGGTT CAAGCAATTC
49741 TCCTGCCTCA GCCTCCAAG CAGCTGGGAT TACAGGTACC TGCCACCATG CCTGGTTAAT
49801 TTTGTATTT TTAGTAGAGA CGGGTTTCA CCATGTTGGT CAGGCTGGTC TGGAACTCCT
49861 GACCTCAGGT GATCTGCCCA CCTCAGCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA
49921 CCACACCCAG ACTATAATCC TATCTTTATG TCAGGACTAC ACTGTCTTGA TTAATATAGC
49981 TTTTAGTAA ATTGAATTCA AGAAGTTTCT CAACTTCAAA TTTGATCTTT TTTTGAAGA
50041 CTATATTAGC TATTCTCAGT CTGCTGAATT TCCCTAGGAA TTTTAGGATC TATTATCAAT
50101 GTCTATTCTA TTTTGTATA TGTTTTAATA TTTTCATAAG AAACTTTTTT CATTTAAACT
50161 TTTTTTTTTA AGAAAAATAG TGAAATCAG AATACTGGGG GTCAGGCGCA TTTAACAGGC
50221 AGAAGAAGAA TAAAAACTTG TCATATAAAC AAAAAAGAAA TGACCAATCA CATTGTGGAA
50281 GCCATGGAGT GGTATAGGT GCCAAAGGCT GCAGAGAAAT GGTGTGAGT ATACCTGAAA
50341 ATTGTCCATT GTATTTGGCC ATTAAGAGAC TTAGAAGACT TAAGCCATAG ATTGCTCAGT
50401 GAGACCCCGA GGGCAAATGG TCTGAAGGTG AATAGATCAT TTCACCTTTA AGAGAGCAGG
50461 TAGGAAGCTA TAAATCCAAG ATTAATAAGT TGACTGAACT GTTAAAGAAG AAACCTAAT
50521 CTTGAGCCAC CCTATCCTTG CTCCACCTTC TGCTGCAAGC AAACAGAAAT GCTGAAATTC
50581 AACACTCACA AAGGCTGGTA AGCTGGAAAT GACAAAAATT ACTCCTGGGA AAGTCAGATT
50641 TAGAATTAGG CCATATTTGT TGGGGTTCAG ATTTTCATGT ACACTTGGGA AAGGGTTTAG
50701 CTTATAGGCA CATGCATGAA GGGAACTGGT ATAGGGCTGT GTTCATAAGG TCAAGAGTTG
50761 AAGGCCAGGC ATGGAGGCTC TTGCCTGTAA TCCCAGCACT TTGGGAGGCC GAGGCAGGAG
50821 GATGGCTTGA GCCCAGGAAT TCAAGACCAG CCTGGGAAAC ATAGGGAGAT GCTGTCTTCA
50881 CAAAACAATT AAAAAATAAA ATTAGTCAGG TGTGGTGGCA CACACTTGTC GTCCAGCCA
50941 CTCAGGAGGT TGGAAGATC ACTTAAGCCT GGGACATTGA GGCTGTAGTC AGCCATGATA
51001 GTGCTACTGC ACACCAGTCT AGGTGACAGA ATGAGACCCT GTCTCCAAA AAAGAGCTGT
51061 ATCCACATCC CAGGAAAGTG GTTGAAGATC TACTTTTCTC TGTAACCTA ATAAAGAATA
51121 GAGTGACAAA TGTGTGTTGT GGAAAGAAAT GGGGTGAGAG CTACGTAGAT GCAAAACAAT
51181 ACATCCCCAC ATACCACTTG TTAATCATCC TTTTCCACCC ACTTATGGGA TGAATTGCAT
51241 CTCCCCAAAA GATACTCTGT CCTAACCTCT AGTACCTGTG AACCTGACCT TATCTGGAAT
51301 ACGGTGAGTT CACTGGTTAA GAAGAGATTA TAGTGAATA GGGTGAGTCC TCCAACCAAT
51361 GACTGGGGTC CTCACAGACA CAGAGGGATG ATGGCCAGGT AGAGATGGAG GCAGAGATTG
51421 GAGTTATGCT GCCACAAACC AAACACAGGA AGCTGCTAGA AGTGGAACA GGCAAGAAAG
51481 AATCCTTCCC CAGAGGCTAC AGAGGGATCT TGGCCCTGAT AATACCTTGA TCTCAACTGG
51541 CCTACGTAAC TGTGAGAGAA TAAATTTCTT TTGTTCTAAG CCACCCAGTT GATAGTACTT
51601 TGTTACGGCA GCCCTAAGGA ACTTGATATA CATTTCCTTT ACTGTCATAG AAGTTTTGAA
51661 TCTTTTAAGT AGGTCTGTAC CCTTCTCTCC AGTGTCAACG CATGGAATTC CTCTCCTTGT
51721 GCCTTGAAAA GTGAAAGGTG TTTGAACTGG TAATGAAAGA AATCTCAGCA TGAGGCCAGA
51781 TGCTGTACCT CACACCTGTA ATCTCAGCAC TTCGGGAGGA TGAGGCGGGC AGATCACTTG

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51841 AGGTCAGGAG TTCTAGACTA CTCTGGCCAA CATGGTGAAA CCCCATCTCT ACTAAAAACA
51901 AAAAAATGTTA TCCTAGCCGG GCATGGTGCC TGTAAGTCCCA GCTACTCAGG AGGCTGAGGC
51961 AGGAGAATTG CTTGAACCCG GGAGGTGGAG GTTGCACTGA ACTGAGATCA CGCCACTGCA
52021 CTCTAGCCTT GGTGAGAGAG CAAGACTTGG TCTTAAAAAA GAGAAAAGAA AAATGAAATT
52081 TCAGCATTAT AGAATAAAAA TGTTTCCCCT TCCCCC AAA CTTTAAAAAA GCAGAAGTCT
52141 GCATCATAAA ATGGTCTTTG CCAATGTTAT TTTTATTATA ACAAAGGAAT CTTGCAAGGC
52201 TACCAGATCT CAGCAATTGT CACTATGTTT TGTA AAAATC ACTTCCTAAA ATGTCTGAAT
52261 TGA CTGCTTG TCTCATTAT TTGTTTCTCG TGTCATACTG CAATGGATAT CTGCTTGTT
52321 AGTATAAATA TTTGTGCATT TTGTTGTTGT TAAAACAGCT TTTTGGCCT GTCTTCTTCC
52381 ACCTATGAGG TAATATAAAA CTCATGTTTA ACATTATTT TTGTAGGAGG ACAAGCTACA
52441 GACAAAACCC CTCAGACACT GAGTTAAAGA AGGAAGGGCT TTATTCAGT GGGAGCTTTG
52501 GCAAGACTCA CATCTCCAAA AACCAGACTC CCTGAGTGAG CAATTCTGT CCGTTTAAAG
52561 GGCTTGCAAC TCTAAGGGGG TCTGTGTGAG AGGGTCATGA TCGACTGAGC AAGTGGGGGT
52621 ATGTGACTGG CAGCTGCATG CACCAGTAAT CAGAACAGAA CAGGGATTTT CACAGTGTTC
52681 TTCCATACAA TGTCTGGAAT CTATAGATAA CATAACCGGT TAGGTCGGGG GTCAATCTTT
52741 AACCAGACCC AGGGTGCAAC ACCAGGCTGT CTGCCTGTGG ATTTCAATTC TGCCTTTTAG
52801 CTTTTACTTT TTCTTTCTTT GGAGGCCAAA ATTGGGCATA AGACAATATG AGGGGTGGTC
52861 GCCTCACTTA TTCACCCCTT TTGAGAATCT CACTCATTAG TGGGAGTTCT CACTTTTATT
52921 CTCCTACCT ATGTCTTCTT GAAAGACAGA TTGATAATGA TTCATATAGT AACTTGTGC
52981 TGAAGCATTT TGGTGAGCTA AGGTAGTGAT GAAGCTTTTT ATCATTTGGA GAAGTACAGG
53041 TAGCAAACAA GGAAGCAGTA AGCAGGTTTC TATTAATATT ATAATCCTA TTATAAGAGT
53101 TTTAAATCTT CTTAGCACTC GGAACCATTT TTCAAACATG GCCCCAGAAA CAAATCCATA
53161 CCACACCTAC ATGGGCACAT GTGCCACTTT TGTCATATTT CTAATATGT CTTCAACTAC
53221 TTGCCCTTAA TCATCTATGT GTAGACAGCA ATTAGTAAGG TTAAATTTCC TACAGACCCC
53281 TCCTTCAGTT GCTAGCAAGT AGTCGAGAGC CAATCCATTT TGATAGATAG CATTTTGCAT
53341 CTGAGTTTCT TGCCAGGCCA CAGTAGTCAG GGCTCTGCTG GTCTTATTAG TAATTATTTT
53401 TAAGACAGCT TGTAAACGTA TGATTCACTT GAGCATGTAA ATGGGGGTCC CATATCCCCA
53461 CAAGCCGTCT TGTGCCCAAG TAGCAGGCCC ATAATATTGT ATGATTCTCT CAGGGGGCCA
53521 TTCATTATTT TTCCAATTTT CTATAGCTAT GCTTTTTTTT TTTTTTTTTT TTTTTTTTTT
53581 TTGCGGGAAG CATATACAGG GAAGCCCAGG AGTTTGCTG TCTTTATGGG CAGTAGGAAG
53641 AAAGATGGTT TAATAGTGTC AATAACACAA CTACCTGCCC ACTGGTCAGG TAATTGGCA
53701 TAAGCTGTAT GCCACATAT CCAGTATAAT CCAGTGGGGG CTGTCCAGTC CCGGTGGGAC
53761 TCTGGGTGGG TCCACACAGT TTGCAACTTT GGGAAATTAC TAAATAGATT TTCTTAGTG
53821 TGGTTTGAAC TCCACTAGGT GGCTGTTTTT ATAGTACTAT TATACAGTTT TGCCCCAAGG
53881 CAGCTGAGTC TTCCACAGG AAGGGTGAAG TCCTTCCCCA CTTTGTCTAT ACAGTATTGT
53941 CTAATGATTG AGGCTTTTAG GACCCAGAAG TTATCAGGGT GAGTCTTTTG AGCTGGGAAT
54001 TTATCAGGAA CTGGGTCTGT AGGTACTAAT TCTCGTGCTT CCCATGGCCA TTGATCTCCC
54061 ATTACAGTTC CTCCACATAC ATACATAACA TGAAGTGACA TTGAGAGACT GGGCTACATG
54121 CTCAGCTAAT TGCAAAAACA AATTTCTTGT TTTTCCTGGA ATTTCTAGTA CTGGCACATT
54181 CAGTTCATCA TAAGAAGGTT TGAAATACTG GCTCAGGGGA GCATTTATAA ACTTCTCTC
54241 AAACCACCAT ATTTACTCAA GGTCCAGTC CAGCCCCAAC TATTTCTAAG GTTACACGAT
54301 CCCCTTTTTT CCAGTGAGAA TCAAGGGGGT TGGTTATTAC TAGTTCTAAG GGGTTACACT
54361 GACCACTGGT ACAGGAAGGG CCACTTTTCC CTTTCTGAAG GTGGACAGGA TTCTTTTAT
54421 TTTTAAACCA AGTTGCCTAA ATGACACAAG ACCAGTATCT ACATTTATTT CCACGCAGTC
54481 TTAATTCATG ACAAGCGTAC TTATTTCTG CCATATAGCC TCTTCTCTAA TGAACAGAAC
54541 CACATCCTAT TTCTAACTTA TTACTATTAA TGACAGCACA GGCATCAAAT TTCAAGGTGA
54601 CTTGTTTGGG CATTCTTTT TCTTCTGTTT TGGCTAACAC TTTACTCGTA TCGTTTATGA
54661 ACCCCACCA GTCTCAGTC CTCAATCTTA TTTCAAAAAC TGTGGTCTGT GAGGGCTCAG
54721 ATGGGTCATA ACACACATCA GGTGGTGCAT TTCTGGGGT ACCTGCCTTG TATAGAATAG
54781 CATTATACAA ACAAGTTATT TTTAGAGTCT TTGTACACTT ATAATAACCA TAAATAATA
54841 AGACTGTAGC AACTTTTGT CCTACCTCAG TGA CTGTGATG TATACACTGG GAACAGCCCT
54901 CAGTCTGAGG AAGGTTAGTT GAAGTCTTTA CTGTGCAAGT CCAAATTTTA AGGAAAATGA
54961 GTCCCTTGAT GAGTTTCTC ATGTTTCGGC CATGCATGGA CCAGTCAGCT TCCGGGTGTG
55021 ACTGGAGCAG GGCTTGTTGT CTTCTTCAGT CACTTTCAGG GCGTTGGCGA AGCTGCCACG

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55081 TACAGCTCAC AGTCTACTGA TGTTC AAGGA TGGTCTTGGA AGTTGGGCCC ACTAGAATTA
55141 ACTGAGTCCA ATACCTCTAC TCAGTCACTT TCAACTGGGC TTTCTGATAC CAGGAGCAAG
55201 GTGGCAGGTT TTAGGGTGTG GCAAATTTCA ATGGTTATGC AGGGATTTTC ACATAGCAAA
55261 CTTTGGTACT TGGTTAATCT AGCATTTGTT AGCCAATGAT GTATTTATTA AAGTCACCAC
55321 AGCATGGAGG GCCTTTAAGT TTAGGTTTTG TCCAAGAGTT AGCTTATCTG CCTCTTGTGC
55381 TAGCAGGGCT GTTGCTGCCA AGGCTCTTAA GCATGGAGGC CAACCCCTAG AAACCTCCATC
55441 TAGTTGTTTG GAGGCCCAGC CTCGGCCAGG GCCCCACAGT CTGGGTCAAA ACTCCAACCG
55501 CCAATTTTTTC TCTTTCTGAC ACATAGAGTG TAAAGGGTTT TGTCAGGTCA GGTAGCCCCA
55561 GGGCTGGGGC CGACATGAGT TTTTCTTTTA ACTCATGAAA AACTCATTGC TGTGGTTGT
55621 AATAGATGTA GTTTATCCAA TCTACATTTT TATTAAGTGT CACCCACCAA AATATTGACT
55681 CAAATCCTGC AGCTATTTGA TTTTGGGATT TAAATTGATC TGCTATTCCC CTGGGACTC
55741 CAATTGCATC TAAATAGATG TGAGAGTTGA AAGACACATA AGGGTCTTCT CTGCTTTTAC
55801 GATGTCTTAT TTTTCTCCC TCTGGTTGAT GAAATGCTAG GGTGAAAGGG ATAGCCAACT
55861 GGACTAAAGT ACAAGTGCCG CTCCAGTTAT TTGGCAGAGT GCCCAGTAAA GGTCCACCAC
55921 AATACCACCA CACATCCGCT TGGGGATGAA CAAAGGCTGA CTGATTGAGA AGCTCCTGAA
55981 AATTCTTAAG CTCACTGCAT CCCTTCAGGT CTCCAAGGAA TGCTAAGTTT CCTCCCTGTC
56041 ATGAGAGACA AGAAGTGAACT TTAGTTTTGG GAGATGGAAG CTGGATGGCC CTCAGGGGTT
56101 GACCTGCAGG GTGCTGGACT TTGGGATATA GCAGAGAGAG CTTGGCACGA CTTATTACTC
56161 CAGGCTGTAG CATCCTGGAA AACAGTTACC ATGCAGCCCA TGCCTGGTCA ACAGGAGGAC
56221 CACCTTAGTG GAAAGGGGAT AATCTGGCCC TCTGGCCTGC CATGTGCACA AGCATAACAA
56281 TTGGTTTTGT TTAATGTGTG GACAGAATAT TTGATCCATT CCAACTGGGC ATTTGCATCT
56341 TGGTATCCTG CTTAATTATC AAAGTTTGT TTAAGTCTTT AACTTCTATG ACCCTCTAGT
56401 AAAATGAATG TATGATTTTA GGAAATTACA AAAACCGGTT GGGGCAGTCC ATCCTCGCTC
56461 TTTAGTGGTC CACACAACAT TCGACCAACT ATGGCATAAA AGCTCTACAT CAGGGGGCAA
56521 GACTCCTCGT TGACACTGGG GTCTTTATTG AAATCTCTCT GGATTAAATG GTCTCAGTTT
56581 ACTAAGGCTC AGTCTGAGGA GAGTCAGGAG GGACAGAGGT ACTTTTCTGA AGTCAGAGA
56641 TGTCTTCGAC TTGGCAAGTC CCCACAGGGT ATAACAAGGC AAGCATTAATA TTCAATAGTT
56701 TGAGGCAAAA TTGACTTGGT TATGTTAATA ACTAGATGGT CAGAAATAGA GTGAGGGAAG
56761 AAGAAAGAGT AATAGAATAG ATGAAGGAGT TAAATTTTTT TTAGCTTTAG TTTGGTAGGG
56821 TTTTCCCCTG GGACTATGGC CCATGACTCT GGAGGGGGTG GCACTTTCTT GACTCGGGTG
56881 TGATGAGTCC ATCCCTTTTT CACCGTATGA ACAACAGTCT CGGTGGTTAG CAGCACAAGG
56941 TAGGGTCCTT CCTAGGCTGG CTCAAGTTTT CTTCTTTTCC ACCCTTTGAT GAGAACATGA
57001 TCTTCAGGCT GGTGCTGGTT TACAGAAAAT TCTAGGGGTG GTACATGTGC TAAAAGACTT
57061 TTAGTTTTGA GGGAAAGGAA AGTGAAGAT AAACCAAGTA TATACTTTT AAGAAGTTGA
57121 CCTTTTGTTT TAAATGTGGG GACATCAGCA GTGGACTTTA TAGTCCTTGG TGCCTTCTTA
57181 CTGAGAAATT TCCTTTAGCA CCTATTTTTA TTAGTTTTTA GACCAAAGAA AGTCAAATGC
57241 CATTTTATAT TTGACAACGC TTCTGTATG TTTATACCAG ATAAGCTAGA TTTACCTTTT
57301 ATATTGGTGT GTTATTAATG TTAACTTAG TTTTAATAAA ACTCTGTAGA CATATTTATT
57361 TGATTTTTAA TGTCTGACCA TAAGGTAAGA TTTTATAGA CTTTCTTTA ACCTTTTATA
57421 ATTTTTGTGA AAGAACAGGT TAGTGCTTTA AGAAAAACCC GTTGTGTTTT TATTTTAATG
57481 TTCAGTTCAC AGAAAACTG TATGATACCC CTTAACTTTA GCCAATATGT TTAGACACAG
57541 AATTTTCTTT ACAATTAAGG TTTCAAAACT TGCTTAAACC TTCAAAACAA TTTTGTAAAC
57601 CTTTTAATGT AGGTAAAAAT CCACATTCTT ATGCATCCTC ATAATCCTTT TACCAAAGGT
57661 ATATTTTACT TTCTTACAT ACCTTGACCA TAAACTGTTT ATTCAATAGT TTTACATTTA
57721 GAAGGAGGCC TAATTACTTT TAAATTATAC AACATTTCTT GCATAAATTT ATTTTTCTAA
57781 CACACATTTT TTTTATGACT TTCACAGACA ATTCTTCGAC ATGCCTCAAC TTTCTGACTT
57841 ATTGCAACAA TCCCTTTCTT TAAACAATA GTTAATTTAT CTCAGGACAA GGATTTTCCA
57901 TACAACATTC TTTTTTATAT AAATCTGCC TCCTCTTTAT TTCTTTTTTT TTTTCCGAG
57961 GATGATAACC ATTCTTTTCC AAAGCGAACT TCTTTTATGT CTGTGGACTA GACTGTCTAA
58021 GGCCACAAGA TTAGAAGTTA CTATAATACA TGTTACACTG TTAACTTTAA GCAAACTTTA
58081 CTTTTGTGTA AAACCTTGTA AGTTTGGGAT TTCAATTATC CTTTGCTATT AATAAGACCT
58141 TATTTAGTCC AAATTAACCT AGAATGGGTA TAGATGGCTT TTTTTTTTTT TTTAATTACC
58201 TGGGAGGAAC CATCTATCCT CTTGTCTGTA AGGGAGTTCC TCCTAGGTCT GGTGAGAGCT
58261 TTGTATGGTA ATTAAGATTT AGATCCCCTG TTAGGAAACC TGCCGGGTAA AGAGAATTTT

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58321	CAGTGGTTAA	TGTTAAATCA	TCTTCTTTTT	TCTTTTTTCC	TTAGGATACT	TCTGAACCGG
58381	TGAGGTGTGC	TCACAATGAG	GTTTCCTGTA	AAAGTTATTT	TTTTACTTTC	TTCTGTTAGC
58441	AAAGCAGTTG	CCGCTACAGA	TTGAATGCAT	TTGGGCCATC	CGCGGGTTAC	TGGGTTAAGG
58501	ATTTTTGATA	GGAAGGCCTT	AATGCTTTTG	GAATATGCCC	TGACAACAAA	GTGCCAGTTC
58561	CTTCCCGGTG	TTCAGCCACT	GCGTTGATCC	TCCACGAGGG	CCTGCCACGT	GCTGCTCTGG
58621	TGAGGCGTTC	CACCGGGGCA	ATTGCCTACC	TGGGAGCGCT	CTCCAGATCT	GTGTCGCTCA
58681	AACTGGCTGG	AGTTCCCCGT	AGGGATGCTC	CACAGGGCAG	GCCTAAGTCG	CCTAAGGGGC
58741	TGCCTTGACC	GTCCGTTAAT	CACCTCTGTC	TCCAAAAACC	AGCTCCCTGA	GTGAGCAATT
58801	CCTGTCCCTT	TTAAGGGCTT	ACAACTCTAA	GGGGGTCTGC	ATGAGAGGGT	CGTGATTGAT
58861	TGAGCAAGCA	GGGGGTACGT	GACTGGGGCT	GCATGCATCA	GTAATCAGAA	CAGAACAGAA
58921	CAGCAGAGG	ATTTTCACAA	TGCTTTTCCA	TACAATGTCT	GGAATCTATA	GATAACATAA
58981	CCTGTTAGGT	CAAAGGTCGA	TCTTTAACCA	GACCCAGGGT	GCGGTGCCGG	GCTGTTTGCC
59041	TGTGGATTTC	ATTTCTCCCT	TTTAATTTTT	ACTTTTCTTT	TCTTTGGAGG	CAGAAATTGG
59101	GCATAAGACA	ATATGAGGGG	TGGTCTCCTC	CCTTAATTTA	AACAAAATTT	TCAAAGTCCT
59161	ACCCCAAGTA	AATTGGCAAA	TATTAATAAA	GTTATGGCAT	AGAAAAATAA	AATGATTGTA
59221	AAAGGCGTAA	AGATATTTCT	GTGGGGAAAA	CATTTGTTCA	TTAGTTATCA	GTTAAAAATC
59281	TGTGAAAAAT	AACCACTAGA	GACCCTAAAG	TACCCAGGGG	CTAATAATAA	GAAGGGAGGA
59341	ACACCCTCTC	AGTCCCCACC	GTTACCTCCC	CAGAAGGGAA	GAGGAAGAGG	GTGACTCCAG
59401	GAGAGCTGTG	GTCTCCCCTC	CCCATATGTC	CACATATACC	TGACCTCCCC	TCCCCAAAT
59461	ATATACCCAA	TATCTCTCCC	ATATATACAT	ATTTATCTGA	CCTCTCCACA	TATGTATACC
59521	TAAACTTTCT	CTATATATCC	ACATATACCT	AACCCTCTCA	CACACATATA	GCTGACCTCC
59581	AGTGGAGGAA	AATGGGGAAG	AGAGAAGAAG	TTATCAAAGG	ATAAATCTAG	GTCATACTCA
59641	GAAATGTGAA	AAACAAAAAC	CACACACAGA	AAAAAAAAAAC	ACACACAAAA	AAGAAATTGA
59701	TAAATTTGTT	TGTGTCAAAA	TTAAGAATTC	CGGTTCAATG	AAGGATCCCA	TGGATAAAGT
59761	TAAGACACTG	CTGTAAGGAT	GGTAGAGAAT	TAAATGTCTG	AATCAGACGA	AAGGATGAGT
59821	AATTAGAATG	CACAAGGCCA	AGAAGAACAA	AACAGAAACT	CCACATAAAA	AATGTATGAG
59881	GCCGGGCGCG	GTGGCTCATG	CCAGTAATCC	CAGCGCTTGG	GGAGGCCAGG	GCGGGCCGAT
59941	CAGGAGTTTG	AGACCAGGCT	GGCCAACATT	GTGAAACCCC	ATCTCTACAA	AAAATACAAA
60001	AAATTAGCCG	GGCGTGGTGG	TGGGTGCCTA	TAATCCCAGC	TACTTGGGAG	CTGAGGCAG
60061	GAGAATCACT	TAAACTCAGG	AGGCAGAGGT	TGCAGTGAGC	TGAGATCACA	CCATTGCACT
60121	CCAGCCTGGG	TGACAGTGTG	AGACTCTGTC	TCAAAAAAAA	AAAAAAATTA	TATATATATA
60181	TATATATATA	TATATATATA	TATATATATA	TGAAATAAAT	GAACAAGAAA	TTTAGATACA
60241	GGAAATCCA	AAGCACTTGG	TAATGAAAGA	AAGGTAAAGT	GATGTGTCCT	TTTGCATTTA
60301	AAAGAGAGCA	TTAACAAATT	AGAGAGCTGA	ATAATGCTCA	GTATTGGTGT	GGATATGGAG
60361	ACTCAGGAAT	CCTCATACAC	TGCTGATGGG	AGTGCCCACT	CCCTGGGAAT	ATTTTCCAAA
60421	TATCATCTCA	AACATATCCC	ATAAAGGTGA	CAGGAAAGTG	TGGGCTGACT	GATATCCTTC
60481	ACTGAGAGAG	GTGGAGGTAA	AATGAAGTCA	CTGCACAATA	TAGAGTTGGA	AGCAATGGAT
60541	TAGATGTCCA	CATAGTTACG	TGGAAGAATC	CGTAAGATAC	ACACACACAC	ACACACACAC
60601	ACCTTTGTGT	ATATTGTTCC	TGGCAGGTAG	GCATGGAGGT	TTAGAGGCTT	TCTACATCAC
60661	ACCTACTGCA	CACAGTAAAT	GGCCAGGCTG	AGCACTGACT	TCCATGAAGG	GAGATTGAAG
60721	GTAAGAGATT	GAAGATTGTT	CCCTGGTCTG	GGACCCTGCA	ACTGAATATG	CAGAAAAAAG
60781	TACACCCCGC	CACCCCGCTT	CCCATCTTTC	CTACCTGATT	AGAATAGCTT	TTTCAGAAAA
60841	CGTTGGCCAG	GGGTTGTGGC	TCACACCTGT	AATCCCAGCA	CTTTGGGAGG	CTGAGGCGGG
60901	CAGATCATCT	GAGGTCAGAA	GTTCCAGACC	AGCCTGGCCA	ACATGGCGAA	ACCCCATCTC
60961	TACTAAAAAT	ATAAAAAATT	AGCAGGGCAT	GGTGGCACAC	ACCTGTCAATC	CCAGCTACTC
61021	GGGAGCCTGA	GGCAGGAGAC	TCACTTGAAG	CACAGTGATG	GAGGTTGAAG	TTAGCTGAGA
61081	TCTTGCCACT	GCACTCCAGC	CTGGACAACA	GAGTGACACT	TTGTCTCAAC	AACAACAACA
61141	AAACCCACCA	AAACTTTAAA	TCTACCTATG	GCCAAATGCC	TGCTAAAATG	AGCACCCAAG
61201	AAGCAGTGTT	CAGGAAAGTC	AGATGAATAC	CCTAAAATTA	GATGCAATGT	TGGCTGGTCA
61261	CAGTGGCTCA	GGCCCTGTAA	TCCCAATCCT	TCTTGGGAGG	CCGAGGCGAC	AGATCGCTTA
61321	AGCTCAGGAG	ATCGAGACCA	GTCTGGACAA	CATGGTGAGA	CCGTGTCTCT	ACAAAAACGT
61381	ACAAAAATGA	GCTGGGAGTG	GTGGCGCACA	CCTGTAGTCC	CAGCTACTCA	GGAAGCTGAG
61441	GTGGGAGGAT	CTCTTGAACC	CAGAAGGCGG	AGACTGCAGT	GAGCAGAGAT	CATGCCACTA
61501	CACCCACAGC	TGGATGATAG	AGCCAGACCC	CCATCTCCAG	AAAAAAAAT	AAAGAGAGAG

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61561	AGAGATGCAA	TATTTAGGGT	TCAACAAGAC	TGAACTTCTG	ACTCCTTTCC	CTACCTCTCC
61621	AGCATGTTAG	ATTCTGGGTC	CTTCATCCTA	ACCCCTGTG	CATGCCATAG	CCACCCTGTG
61681	GTACCAACTT	TGGAAGCCTG	GATCTTCATC	CCCTCATGAT	AATGAGTGTC	CCATTACAGT
61741	CTCCATGCTC	AGCTTGGCAA	GAGTATCTGT	CTTCTCCTCA	TGGGACGGTC	ACATTACCCC
61801	AGCACTGACA	GGTTCCATTC	CCACTAGGGT	GGCACCCTAT	ATGGTCTGAG	TCCAGGCCTT
61861	CCTGGTCCCT	CAGTAATCTC	AGCATGGTAG	CACAATCGAA	AAGGGCTAGG	CACGGCAGCA
61921	CCATTTCCCA	CCAAGAGGTC	TGATGGCTCA	TCACATAGAC	TGAAGGAGAT	TCTGAAGAGC
61981	AGAGGTGGAA	TGAAGAATGA	ATCCTGGGCT	CTGCTCTTCC	TAGGCCTGTC	TTCTCTCTC
62041	CCGAGATGTT	AGCTAACTCA	TGAGAGCCAG	AAACCAACTG	CAGGCTGGCC	TCAGGCACTT
62101	AGGTAGTGCT	TCAGCCTCAG	CAGTCCACAT	TCTAGGAACC	CTCATAATAT	GGGTGGAAGT
62161	ATGCATTCCC	ACAAAAATAA	AGTTGTTGAA	GTCCTAACCA	CCAGTACTGA	AATGGGAAAA
62221	GTTCCCTTGT	CCCGCTCGCA	TGGCATGTGA	TAGGAGTGTG	GCTAATTTCT	TCAGTGCCTG
62281	GCTGCTCAAA	CCTCTAGGGG	AACAGTAAGA	CGGGCAGGTT	GTGGGTCTCC	AACCCCATGA
62341	CCCCACCACA	GTGTCTAGGG	TTGAATGTTT	ACAGCTCCTG	AAGCCACAGT	GGGTGTGTGT
62401	TACAGGGTGC	TCTTTTAGTT	TTGCCATTTA	TAGGCAGCTG	GTGTTAACCA	ACTCAATTAG
62461	ACCGTCTACC	TTGTCCCAAG	GACAGAAGAA	GGCTTTCTGT	ATCCCAGGTT	CTTGCCTTGG
62521	TGTACCGGAA	TAAATCAGAC	CACACCTGGG	CTTAGAGAAA	GAGTGCAAGG	TTTTATTAAAG
62581	TGGAGGTAGC	TCTCAGCAGT	TGGGCAAAGC	CAAAAGTGGA	TGGAGTGGGA	AAGTTTTCCC
62641	TTGGAGTCAG	CCACTCAGTG	GCCCAGGCTC	TCCTGCAACC	ACCCAGTCA	AATTCCGCCT
62701	CATTTTGCCA	GGCAAACGTT	TGTTGTGTGC	TCTTCTGCCA	GTGTGCTCCC	CTGGACGTCC
62761	AGCTATTCTG	GTCTTGTTGC	AGGCCAGGGG	AGGTCTTGGG	AAATGCAACA	TTTGGGCAGG
62821	AAAACAAAAA	TGCCTGTCTT	CACCGTGGTC	CCTGGGCACA	GGCCTGGGGG	TGGAGCCCTA
62881	GCCGGGGACC	ACGCCCTTCC	CTTCCCCACT	TCCATATCAT	TTAAAGGGAC	CATGCCCTTC
62941	CCTTCCCAGC	ACTTTCCCCC	TCCTGTATCA	GGACCTGTGA	ATGTGGCCTT	ATTTGGAAAT
63001	AGGGTCTTTG	CACCTCATCA	GTTAAGATAA	GAGTGGGCTC	TAACCCAACA	TAAAGGGTGT
63061	CCTTATAAAA	AGGAGAAATG	TCATACACAG	AGACTGACAC	CTATAGAGAG	AAAATGTGGT
63121	GAGTAGACAC	AGGGAGAATC	ACCATTCAAG	TCAAGCAATG	AGTCTGGGGA	TACCAGAAGC
63181	TGGGAGAGAA	ACCTGGAACA	GATTATCCCT	CATTGCCTTC	AGAAGGAATC	AAACCTGATG
63241	ATACTTTGAT	TTCAGACTTC	CAGCTTCCAG	GACTGTGTGA	CGATAAATAT	CTGTTGTTAA
63301	GCCAACAAGT	TTGAGGTACT	TTGTTACTGC	AGCCCCAGAA	AACTAATACA	GTAGGTACTA
63361	TGGACTGAAT	TGTGACTCCC	CGTCGCAAAA	TTCATATGTT	GAAACCCTAA	CCCCCAGTGT
63421	GATGGTACTT	GGAGCTGGGG	CGTTTGGGAA	GTCATTATAT	TTAGACAAAC	TCATCAGGAT
63481	GTGTCTCTCA	TGATGAAATT	CATGCCCTTA	TTAAAAGAGA	CAACAGGCCA	GGTGCAGTGG
63541	CTCATGCCTG	TAATCCCAGC	ACTTTGGGAG	GCTGAGGTGG	ATGGATCACC	TGAGGTTGGG
63601	AGTTTGAGAC	CAGCCTGSCC	AACATGGTAA	AACCCCATGT	CTACTAAAAA	TACAAAAATT
63661	GGCCAGGTGT	GGTGGTGAC	GCTTGTAATC	CCAGCTACTT	GGGAGGCTGA	GGCAGGAGAA
63721	TCCCTTGAAC	CCAGGAGGTG	GAAAGTTGAG	TGAGATCACA	CCACTGTACT	CTAGCCTGGG
63781	TGATAGAGAC	TCCATCTCAA	AAAAAAAAAA	AAAAAAGAC	AATAGAGCCA	GGTGTGTCAG
63841	CTGATGCCTG	TAATTCCAAC	ACTATGAGAG	GCTGAAGCAG	GAGGCTCGCT	TTAGCCCAGG
63901	AGTTCAAGAC	CAGCTTGGAC	AAAATAGTGA	GACCCCCAAC	TTCTAAAAAT	TTAAAAAATG
63961	AACTGGGTGT	GGTGGTACAC	ATCTGAGGCT	CCAGCTACTC	TGGAGGCTGA	GGTGGGAGGA
64021	TTGCTTGAGC	CCAGGAGGAG	GCTGCAGTGA	GCCATTGCTG	TCCAGCCTGG	GCTACACGAG
64081	AACCTGTCTC	GGGAAAAGGA	GAAAACAGTG	AGACCTCTTT	TTCTCTCCTC	CTTCTCTCCA
64141	CTGCCTAAGC	CCTACAAGCA	CAAAAAGGAC	ACCACATGAG	CACATAGTGA	GAATGTGCTT
64201	GCCACCAACA	AGTCAGGAAG	AGAGCGTTCA	CCTAGAAACT	GAATTGGCCA	GCACCTGGAT
64261	CTTGGACTTC	TGAGCTTCCA	GAACTGTGAG	AAAGTTATTT	TTTTTTTAGC	GACTAAGTCT
64321	ATAGTATTTT	ATTACAGCAG	CTCAAGGTAA	CTAACATAGT	AGAAGGGATG	AATTATGGAG
64381	ATCACAAGTC	CACGCCTCCA	GAAAAAGACT	TCCCTAAAAA	TTAGTCTGAG	CAAAATTCGA
64441	ATGATGAATT	ATTTTAAAGA	ACTTTTAAGG	GATCTGACAA	GTTTGCAAGA	GCTAGAGAAT
64501	GCTTTACAAC	GTGATAATAG	AATGCTCTGT	GATGACAGAA	ATCTTTCCAC	ACTGTTCAAA
64561	ACTAGCTACT	GGCCACTTGT	GACTATTGTG	CACTTGAAAT	GTGACTGGTG	TCTGAGGAGC
64621	AGAATGTTTA	ATTTTACTTA	ATTTTAATTC	ATTACAATAG	CTACATGTAG	CTAGGGGCTA
64681	CTGGATTGAA	CAGCACAGCT	CGAGTCTTTT	AGAGGGAGAC	AGGACTCACC	AAGGTGGATG
64741	CTGGTGGCCA	AGCAGCAATG	GCAGGTAGTA	CACACACAAG	AGGCAGATGA	TACAACACAT

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64801	CCTTCCCAA	CCTGGAGATA	AGCTCACCCC	ACAATCCCGC	CGCTGAAATA	GAGTTGATGT
64861	TACCAATGTG	CATTTTTATG	TCCTTTTCCA	TACAGAAAGA	TCATTCAACA	AGTACTATGG
64921	TACTTAAAA	ACAACATTCA	ATTCAATTAT	ATGACAAAAT	TAAATTAATA	GCTCTTCCTT
64981	AAACTTTTAA	ATTCAATTTA	CAATGCTTAC	TATTGGCATT	TATTAATCTA	CCAATTTTTT
65041	CCCATAGAAC	CCATAGAACA	AATAATCTAC	CAAATTTTTA	ACATTCATTT	TTGGCAAGGC
65101	TTTTGCAATT	TGACGAACTT	TAAGAAGAAA	ACTTATAAAT	TGCAATTTTT	AAATCTGACA
65161	TACTGGACTT	TTAAAGTATC	CAATTGACTA	ATGAACAAAA	CTGCTCCAAA	TTTTTCAATT
65221	CTTAAAAATC	TTAAGACAAT	ACTTAATATG	GCAAATCTTA	ACTTCTTAAA	CTTTGTAAAG
65281	ATGCTAATCA	ACTTAGATTG	GTATAAAGTT	GAGTTAAAAA	TCACAGGATA	CATCATCTCA
65341	GCTATAAGTT	TTCATGAGTT	GAGTTTTTAC	AATCACTTGA	AATGCTTAGA	ATAGGAAATA
65401	CGTATAAATT	ATTTAACATA	AAATATTGTT	ACAAAACCTC	TGGAGTGTCA	GTTTCTCTGG
65461	CCGACTTTTA	TGCTGCAGCA	CCTTGCCTG	AGTCTTGTG	CTGCATCCAG	GAAGAATTAG
65521	GTACAGAGGC	AAGAGTCAAG	AAGATTAGTT	TTCCAATAGT	TCAGCTCACC	TAGTTAACTC
65581	CTGTTCACAA	TCTTCAAAGT	TATCAGAAAC	CTGCAATTGA	GGGTTATAAT	CCATTCTTTG
65641	CAGAGTTTCA	AAACAAGACA	ACATTGTCT	ATGAATGTTA	AAATGTCCTA	GGGTAGTCAC
65701	AGTCAAAAAC	ACAATTGACA	AAGAAATTTA	GTCACCTCTG	TGATTTACAA	TAGCCTAAC
65761	CAATAACTCT	AATTATAACT	GATGACACAA	ACTCAGATAT	CAGAACTCTA	GAAATCCCTT
65821	ATAATTTTGG	AACACATATT	CACAGTTTTT	ACTGAAATAT	GACCTGAAGA	TCAAATATCA
65881	CCTTATTTCA	ACAATCCTAT	ATAACTAAAC	GTGTCAAATG	ATCCTGTTTA	CCTCTCCTTT
65941	GGATACTCCA	GGGGCCCTCT	GTAGCATCCA	AAAGTTAGGG	GTTAGCAAAG	ACAATTTTGA
66001	AGCTGTAAAG	GCTCAAAACA	CTTAATGAAC	CTCTAGTCAT	ATCTGTTCTC	TACTCACTAA
66061	ATGCTAGTAG	CACCTCTCAG	TTGTGGCTAA	GCTGGGAGGA	TCTCTTGAGC	CTAGAAGTTT
66121	GGGGACGCAG	TGAGCTATGA	TTATGCCACT	GCACTCCAGC	CTGGGCAACA	ATGCAAAATC
66181	CTGTCTCAAA	AACAAAAACA	AAAAACAAAT	TGCCTATGCT	GTGGTTATCT	CACAATTAAT
66241	AAAAAGGAAA	AAAAAAGTAT	GCAGTCTTTG	TAGGTCCTTG	GGGTTTGTTG	GAAGTCAGAA
66301	AACAATACCC	CAAAATAAAG	ACCGCAGAAG	CCAAAGTTTT	TCTCTGATCT	TCTCCTGCC
66361	TCCTGTCTCT	GAGTCCCAT	CTCCCCGGAG	TCTAGCCATA	GAAATGAGAA	TTCTCTTCC
66421	TCAAGTTAGG	TCATAGAAAT	CAAAACACCT	TTTCCCCAGA	GCCCAGCCAT	AAAACCTAAA
66481	AATATTACTC	TAAGTTTCCC	TCTGTTTTTC	TGTGTAAAAA	CTGGCCATAA	AGAAATTATC
66541	TGAAGTACCT	TATTTGATCA	TAGATCACC	GACCGCATT	CAGAGAGGAT	CAAGAAGGAA
66601	GGAGTCTGTC	ACAGAGAGGC	CAAGAAGAAT	CTAGACAGAC	AGGCCTTGCT	GGGTTTCCCT
66661	ACTCTGTTTA	TTAGCAATCC	TATTTCTACA	CGGCGGCCCA	TACTTTGTTG	AATCTAAAAA
66721	ATAAAAAATG	ACAATTTCCC	CTGTACATGT	TAATACACAT	TAATAAATTG	GATATAAATT
66781	GGATAATTTA	TTAATATACA	CATTAATAAA	TTGGATGCAG	CCGGGTGCAA	TGGCTCACGC
66841	CTGTAATCCC	AGCACTTTGG	GAGCTGAGGC	GGGCAGACCA	CGAGGTCAAG	ACCACCCTAG
66901	CCGAAATGGT	GAAACCCCGT	CTCTATTAAA	AATACAAAAG	TTAGCTGGGC	GTGGTGGCAC
66961	ATGCCTGTAG	TCCCAGCTAC	TGGGGAGGCT	GAGGCAGGAG	AATTGCTTGA	ACTCGGGAGG
67021	CGGAGGTTGC	AGTGAGCCGA	GATTGCGCCA	CTGCACTCCA	GCCTGGTGAC	AGAGTGAGAC
67081	TCCGTCTAAA	AATAATAATA	ATAATAATAA	TAATAATAAT	AATAATAATA	ATAAATTGGA
67141	TGCATTTTAT	CCTATTAATC	TTCTCTTTGT	CGGTGGTTTT	CAGCGACTCT	TCAGAGGCCA
67201	AAGAGTAAGT	TTTCCCTTAG	CCCCTACAGG	TTCTTATGTT	TAATTTGTTA	CTCTCATTTA
67261	AGACATAATT	AAAGTGGCTT	CTCCATGAAG	ATTATTTCTG	CATCCATTAT	TTGGTAAGAT
67321	TGGCCGTTTT	CTCCTTTGAT	CTCTACTTCA	CACTGACCCA	CATAAAACAT	CACTGCCTGT
67381	TTTTTTGTTG	TTGTTGTTTG	GAGACGGAGT	CTTGCTCTGT	TGCCCAGGCT	GGAGTGCAGT
67441	GGTGTGATCT	CCGCTCACTG	CAAGCTCCGC	CTCCCGGATT	CACGCCATT	TCCTGCCTCA
67501	GCCTCCTGAG	CAGCTGGGAC	TACAGGCACC	CACCACCAAG	CCCGGCTAAT	TTTTGTATTT
67561	TTAGTAGATA	CGGGGTTTCA	CTTTGTTAAC	CAGGATGGTC	TCGATCTCCT	GACCTCGTGA
67621	TCGGCCCGCC	TCAGCCTCCC	AAAGTGTGCG	GATTACAGGA	GTGAGCCACT	GCGCCCGGCC
67681	CCGTTTTTTT	TTTTTTGGTT	TTTGCATGTC	TTCTCCCTTT	TACTGTAAAC	TATTTCCACT
67741	ACCAGCGTAG	TTATCATTTT	TACTGCTTAA	TAATTGTTTT	GGGGAAGTGA	ATGCATCAAC
67801	CCACATGAAT	TTCTTGCTTA	TTTGACAATT	TATTCTCTTT	AGGAATAGTA	TTAACTCCTA
67861	AGGTCCTGGG	AGCCAGTCTC	TGTACTTGGC	TGCTCCAGGG	TCCTACTTCA	GTTTCCCAGC
67921	TTCTCAGTAC	TGTCAGTGTC	AATTGTGGGT	AATAATTATT	TTTGTCCACC	AAAAGACTCT
67981	GTATGTGAAT	GAGTTTGTAA	ATCTGCTGAG	TAATACAGTG	TCAACCCAGT	TAATGATTTG

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68041	CCGGGCGGCT	TGATCAGGGG	CTGTCCAAC	ACCGGCATT	TGATTTGGAG	CGTCATCTAG
68101	TGTCTGAAAG	CACAAACAAC	ATCCTACATT	GTAATGCTT	TTGGCTACAG	AGATTGAAAC
68161	CAAAGCAAAC	CTATGTTTTG	AATTGTTATT	CTTCAGCAGT	TCTGCTAGCC	TTGAAAAATC
68221	TAAAAGTTAA	AAAAAAGCTT	TATATTTTCA	TTTCTGCCCTA	AACTCTTTAA	AATTGCTAGT
68281	TGACAATTAG	ATATTTTCAA	TTTAATGAAA	TTTTTTTTTA	GTTACACAGAT	TAATACACAA
68341	TGGGGGAGGG	TTCTTATTCT	GTTGGACTTT	TACATAACCT	CCACTTTAGT	GCAGTCTGCT
68401	TTATGGGGTC	TTGTTTGAGG	TGTGTGTGTG	TTTAAGGGAA	TGTGGTTTAC	AATCAAAATA
68461	TTGGGTTGCT	CTTAGGCACA	TTGTAAAGTC	ACACACCTGT	ATTCTTATTG	ATACATAATG
68521	ATTAATAACA	TTATTATTAC	AGCCTGATCA	CCATCATTAT	TGATATATCT	AAATAATGAA
68581	TTTTATAATT	TTGCTTCCTG	TCAGGCAAGA	GCCAAATTCA	GTGCTACCAT	GTTTGTATAG
68641	CAGTATTTAT	GTCTGTCTATC	CTCAGTCATT	TTACTTCACT	TGTTCTTAGC	CAAACGGCCG
68701	AGAAGCGATG	GTCATTTTAC	TTCAAAAATG	AAAAGAATTA	ATATTTTAC	GTTTCCCTTA
68761	AAGACCCTAT	GTTTAACCTC	CACTCCCGGG	TAAAATGGTC	TAGTCCCTCC	TTTTCATATC
68821	ATCTCTGATA	TCTTTTGCAC	AGCCACTATT	ACCTACCGTT	TTCTAGATCC	CTATTCTTCA
68881	AACACCACCA	TGAAGGTAGA	GCCTGTCTGA	ATTATTTTCT	TGTCCCGTGA	ACTCAGTACA
68941	TTGTTAGGCT	TCTTGAAGAT	GTTGATCAGT	TGTTTGTGGA	GTGAATGAAT	CAGCTAGCAT
69001	GATTTTTTCTA	GACCACTGAG	ACAAGTGTCT	AAGACACTTG	TTCCTTCCCA	TGTTCTTGCC
69061	TGCCTGTGCA	ATCCATGCAG	TCTCATGGGT	TCCCAGTGCC	TCAGAATTAT	CCCCTGTCAA
69121	ACAGGCATTA	TAATTTCTGT	CCACTGAAAA	GGACAAAAAA	CTAAGTGTAT	AGCTAGAAGT
69181	TAAAAATTAC	CGGCCAGGTA	CTGTGGCTCA	CTCCTGTTAT	TCCAACATTT	TGGGAGGCTG
69241	AGGCGGGCAG	ATCACCTGAG	GTCAGGAATT	CGATACCAGG	CTGGCTAACA	TGGCGACCCC
69301	GTCTCTATCA	AAAATGTAAA	AGTTAGCCAG	GTGTGGTGGC	TCGCACCTGT	GGCCCCAGCT
69361	ACTCAGGAGG	CTGAGGCAGG	AGGATCGTTT	GAGCCCTGGA	GGTTGAGGCT	GCAGAAAAAT
69421	AGGAATATAC	TCTCTTTCAA	GAGTTCGTGG	TTTTGACTGC	CACCTAGCGT	ACATCAGAAA
69481	AACCGCATGA	CATAGGAAAT	CGCTGTGACA	GAGGGGTAAG	GTGAGAGAGG	TTGATGAAGA
69541	ATGTATTGAA	GGAGTGAAAA	CGCTTCCATC	CCTCTACTTA	CTAAATATAT	TAGTTAAGTA
69601	GTTGGGGCAT	ATTTTAATTC	ATGCATTTTG	TAGATAGAAA	AACAAAAGTT	TTATTCTGTT
69661	TGATTTAGTT	GATACTTTAA	TATGTGTGTG	TTTAGGATGC	ATGATTTATA	ATCAGTCTGC
69721	AGCACTTCTT	GGAGAAGTCT	GAATTCTCAT	TCTCCATTTT	CTTATTGGCA	ACGTGAGAAT
69781	GATTACAATG	GTGGTTGTCT	CATAGAATGC	AGGGAGTCAG	AATGAAAATA	GTCCATATAA
69841	TGCCTGGTGC	AGAGGAAGGG	TTCAAGTTAA	TGTCTGTATT	AATATTACTG	ATAACAGTCA
69901	TGACAAACAA	AAGCTTAACA	ACAACACCAC	CAACAACAGT	TGCAGAATTG	AGCCACCAAT
69961	TTGCACACAA	GATTGTAGGT	AGGATGTTTT	AGAAAAGTTA	TTATTTAATA	TATGTATATA
70021	TTTTTGTACT	TAAAATATGT	CAGAGGTTGT	TCTAAGAACT	ATTTAAATGT	TAACCTCTTA
70081	ATCCTCATAA	TGACCCATGA	AACAGGTAGG	CTTATTATTG	TCTCTTTACA	TGTGAGAACA
70141	CTGAGACACG	AAAAGGTTTA	TTAACTCACC	CAAAGTCACA	CAGCTGGTAA	AACGGCAAAA
70201	TTGAATTTGA	ACTCAGACAT	TCCAGGTTCC	AAGACAGTCT	AATTATTCTT	TTGACTAATA
70261	TACTAAGCTG	CCTCTGTATT	TTTCCTTGAT	TACTTTGTAA	AAGTATGAGG	AAAATATAAG
70321	TGCTTCAAGT	AACCATGAAA	AATATAAACA	ATCTATGTAT	CAACTGAAGC	ATAATTACAA
70381	ATCCTTTGAT	AAGCAAACAT	AATAAAAAAT	TGATATCAAT	CAAACTTTTC	ATGTAATGTA
70441	AGCAGGTTGA	GATGAATTCT	ATAGTAAAAA	AGTGCAGAGT	GCTGGAATAC	CATGCTCCTA
70501	ATATATTGGC	TAGGCACACC	TGCCTGCTAT	CAAAGGTATG	CACACACCTT	GGATACAGAA
70561	AGTTGGGACT	GGGTAGTTAT	GTGAGTGTCA	TCAGAATTCT	TTCCCACTTG	GGAAAGAATT
70621	GTCCATCATA	AGCTTGATG	ATGGACAAGG	AGTGAGCTCC	CAGAACAGTG	ATGTGGGGAT
70681	ACATCCTCAC	ATCACAGTGA	GAATGAGTGT	TCTAGACTGT	TTACACACCT	ACCACTCCTA
70741	AATGCACACA	TATAATTGCT	TGCACACACA	CACATACACA	CTCATCTCTT	CTCTGGTGGT
70801	CCAGCTCTAT	CTCTTATCAT	TAGGCTTCTT	GGGGCTAGTA	CCTAGGGCCT	GTATCCTTTC
70861	AGAGGCAGCT	AAGGGAAGCA	CACATAATTA	GAAAGAATGA	ACCAGCTTGT	TGGATTTGGT
70921	CTCTTCGCAT	CCAGCCCTCC	AAGTTAAGGA	GAGTACCATC	TTTCTTAGGG	TCACCAAAGG
70981	AAAAAAAAAA	AAAAGAAAGA	AACAGAAGGA	TATCATACAG	CAAGGATCTA	ATGCAAAATAT
71041	GCCTCAAATG	AGAGGCTACT	GTGTGCTGAT	CCCAATCCCA	GGAAGTGTAT	GCACATTATC
71101	TAATTTAATC	CTCACTGTAT	TTCTGGGAGT	ATTATTCCCA	TTTTACAGAG	AAGGAACTTG
71161	GCAGGGTAAC	CAAGCTCATG	AATGGAGAAA	CTGGGATTAA	ATATAAAGCT	TCCTTGCTCC
71221	AGAACTGCTG	TCTTTCTGCT	CTTCCACACT	ACCAGCTCAG	CTGTGCTCTC	TACATGCAGG

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71281 CAGTTTTACA AGTTTCAGAT TAGCCTGGGA CTTCCAGGGT TTTGAATGGG TTAGGGAATG
71341 GGGAACTTTT GGGTTTACTT TCCATTTTTT CTTCATA CAT ATGTAATATA TAACATAAAT
71401 CTATGGTATA TATGATAAAT ATATGGCTAC ATATGAACTA TATAATCACA TATATGCATT
71461 ATAAATAAAT ATTAATTTTA TAATATTTTA AAGGTTATCA AATAAATATT AATATAAATA
71521 ATTAATAAAT TAATACTCAG CTTTGTTC CAAAGTGATA AATGCCTATA TTTAGCAAAA
71581 TATTTTTTGG AGGCCTGATA GTTTTTAGGA GTGTAAAGAA GTCCTGATAT CTAATGT TT
71641 AAGAACCCT ATTTTAGGCT GTTGTCTTCT GTCTTATTTT CCCAGCTAGA CTGGTAAATA
71701 CTTGAAGGCA AACGTTTAGC CAGCACATTA ACATTTTATG TTTTATTCT TTTGTGCTCT
71761 CAGTGGCTGT GTCTTTCTA TCGATTTCTC AACTGTATG ATGGTTATAT TTGTCTGTAT
71821 CTGTCCCACC AGGTATAAGT TCTTGAGAGG ACACACTGCT AGGCTGATCT TAGTTTTTAT
71881 TATTTCTCCT GGTGTCCTGT GCTTAACAAG GCTCATTAA GTGTGTAAAA ACACAGCACA
71941 GTAAAAAAT AGACATTAAA AAATAATGTC AACCAATCTA TTGAAATTTG CATTTCCATG
72001 TTTCTTCCAA TATAGTCATT GTGTCAGGTT ATGTACTTAT TCTGATGAAG ACTATTGCCT
72061 AATATACCTT TGCATCTTGT GCTTTATAAC TGCCTTCATA TAGACACAGA TTGAGAAGGT
72121 GTAAAAATGT GCATATCCTC ACAATTGACA AATTCTTATC CTTTGAGGGT AGGTTTGACT
72181 TTCTGAAATG CTTTGACATC ATTTGAAAGA AGCTTGAAGA ATAAGATAGC TGTTAATGAC
72241 CCAGTTTCCT ATGTCACTTA TACAATTATA ATGGCAATTT CAAAATGTTA GGTAAATATA
72301 TTTTGCAATA TATTGTTCTT TTTGTAATAC TCTCTATGTA TTTATTATA TTTTAAAT
72361 TTATATTTAT GTATTTATTT TTCTGGACAG AGTCTTGCTC TGTGCCCAG GTTAGAGTGA
72421 AGTGTGTGTA TCATAGCTCT CTGCAACTTC AAAGTCTGCG GCAAAAGTGA TCCTCCTGCC
72481 TCAGCCTCAT GAGTAGAGTA GCGGGAACCTA CAGGCGCATG CCACTGCACC CAGCTAATCA
72541 CTATTTATTA TGCTCCTACT GTGTGCTTTA GTATATTTTC TGTGTTTTTC TGCAACCCAT
72601 TTTGAGGGCG TGTTAGGGAA TACAGATGCA GTAACTTTGG TCTCAGCCCT TGAGGTGAGG
72661 AAATATTTAG CCTCAGGTTT AATCTAATTG TTGGCCATTT GCCTTCAAAG ATTGAAATAT
72721 GAGCAAACT GTGGCTCTGG GTTATATTTT AAAAAAAGT TTATGGGGCT GAAGCCAGGC
72781 AACAGACAAG AGCCCTACA ATCTTATTTA GGCTGAAAT ATCCTGGAGT CCCTGTATTG
72841 TTGGTCTCAA GCAGATAGCA ACCTAACAC TTAATCTTTG AGGCAGGCAC TGCCAGTGGG
72901 GTGGCTGTTA TTATTAGCTT CATTAAATTG TGAGTCAGGA AAAACAGCT TTAAATCATT
72961 CAAAGTTCTG GCCTATACAG GATTTAGTAA TATTAGGTTA GCTACATCCA AAAGATGACA
73021 GAACCCTACT CTAAGGCTGG GCTTGGTGGT TCACACCTAT AATCTCAAAA CTTTGGGAGG
73081 CTGAGGCAGG AGGATCACTT GGTGCCAAGA GTTTGAGACC AGCCTGAGCA ACATAGTGAG
73141 ACCCCTGTCT CTATCAAAA CAAAGAACT TAATTGGCAT AGTAGAAGGA AAAAGTGAAA
73201 GAAAAACCAG CTGTCACCTT CATTCCCTAC ACCTGTCCTA ACACTCCTC TCACTATCCT
73261 TTGAATATAT CTTGGCTGTT TGAGTCTCTC TCTAGCCCCA TTAATGCTGT TTGGACTTGA
73321 CATTTTGCTC TGCAATTTTA ACTTTTCTAC CAGGGTTTCC AGACCCTGAA GAGTGTGGCA
73381 TGAAACAAA CTAGTCAACC TATAATATTT ATGATGTGTG TGTAATAAA AGAATACACA
73441 ATATATTGCA TTACAATATT TTAATGTGT CCTCAATTTG TTTGTGGCTT TCTTGAGGAC
73501 ATCAGTTTTG GGTGGGACGA CCACATCCTT AATCTGAAT TTCCCTTGGA GGTCAATCTT
73561 TTTTTTTTGA AATAGAGTCT CGCTCTGTCA CCCAGGCTGG AGTGCAGTGG CGCAATCTCA
73621 GCTCACTGCA ACGTCCGCTT CCTGGGTTCA AGTGATTCTC CTGCCTCAGC CTTCCAAGTA
73681 GCTGGGATTA CAGATGCACG CCACCATGCC GAGCTAATTT TTGTATTTTT AGAAGAGACG
73741 GAATTTTACC ATGTTGGTCA GGCTGGTCTT AAATCCTGA CCTCATGATC TGCCACCTC
73801 AGCTCCTAA AGTGTGGGA TTACAGGCGT GAGCCACCCC GCGGCGCCAG AGGTCATTCT
73861 AATAGACTTT TTTTGTGTG TTGCTCACAG GCTTGTTC AATTTATTTCA AAATTTGAGA
73921 AATACAGTTT CCATGGAACA CCAACCAGAT ATCAGGTTGC TATGGAGTTG ATAGTCAAAA
73981 GCTTGTATC TTCCAGTTTT TCAGAATGGC TTCTAAAGGT TCTGATTGAG AGCTCTTAGG
74041 CGAAATTGAA CAACCAAGTG TCAAAGTACA ACATTCAGGA AGTTAAAAAC ATGACTGACA
74101 TATATGTACT ATATATAGTG AGCTTGTGTA TGTGTCAATG AATGATTTAA TTCATTAATG
74161 AAGGAGGAAG CAGAATCACA ATTAGGTCAA AGGAAGATAC GGGAGAATAA AATATGTATT
74221 TGGTCAGGGA AAGGATGTAT ACTGGAAGAG GAAGGGAAAA TCAGATATAA AGTTGTTTAA
74281 TGACTTATTA GGCAATACAA TAATAACTTT TAGGGTCATT TTTCTATAT TAAGAAATCA
74341 TTTCCATCTC TATGACAAAA TCCTTATTAA TTTATTAAAC TTCTACAAGT GAATGTTTAC
74401 TTTTAGATAG TCTGGACCCA ATAAATGTA AACATTAAGT CAGAGTTACT TACAGTAGG
74461 ACAGTGTGT CCAATAAGGT ACCACTAGCT ACACGTGATC ATTGACCATT TGGACTATAG

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74521	CTAGACTGAT	TTAAATGTT	CTAAAAGTGT	AAAATACACA	CCAGGTTCTG	AAGATTTATC
74581	ATTTAAAAAA	GAATGTCAAC	TGCTTTTTTT	TTTAGCTTAT	TTATTATATG	TTGAAGTGAT
74641	AATAGTTTAG	ATATATTAAG	TTAAATAAAA	TATCTTAAAA	TTAATTTTAC	TTGTTTCTTT
74701	TCATTCTTTC	AATGTGACCA	CTAGAAATCT	GGAAAGTATT	TATGTGATTG	ACATTCTATT
74761	TTACTGTCTA	GTATTGCCTT	ACATCATCAG	GTACCCCATG	AGTAGGCTTT	TTAGATAATT
74821	CTCTAATATA	GCTTGGAAGG	ATATGGAGAA	ATATTTTTGC	GTGCTTTTGA	AGTTTTCAT
74881	AACTTTTTCA	ACACACTTTA	TAAAGGATCT	AGAAAAGGGT	TGGTTACATG	TTTCTCTGTC
74941	TTCTGGCCTC	CACCATGTTG	CCAGGAGGTT	GGGGACAAGA	TTCTGGGTGG	CTGGATGTCC
75001	TAATGGCTTG	AGGTCTGGAC	TTGAGATTG	CATATAAAGA	GATGTGATTA	GATTGAGTCG
75061	ACTAGAAAAA	TCATATTAGA	GAACGAATC	ACAGCGATTA	AATTTACATG	TCGATTTATA
75121	AACCAGGACA	CCAATTTATA	GTGAAAGAAG	GTCCAGTTAC	CTGGTAATCA	AGACGTTTCA
75181	TAGCTATTTT	CATGATGGAT	ATACTTAGCT	GAGTTTTTAA	TGAGAAGGGG	GTTCTAGTCA
75241	CATAGAATAA	GATCTAAGTG	AAATGTTTAT	TTATTTTTTT	TTTTTTTTGA	CATGGAGTCT
75301	TGCTCTGTTG	CCCAGGCTGG	AGTGCAATGA	GGCAATCTCG	GCTTCTGGAG	TGCAATGAGG
75361	CAATCTCGGC	TTCTGGAGTG	CAACGAGGCA	ATCTCGGCTC	ACTGCAACCT	CCACCTCCCG
75421	GGTTCAAATG	ATTCTCCTGC	CTCAGTTTCC	TGAGTAGCTG	GGATTAGAGT	TGCCTGCCAC
75481	CACGCCAGGC	TAATTTTTGT	ATTTTTTTTA	GTAGAGATGG	GGTTTCACCA	TGCTGGCCAG
75541	GCTGGTCTCG	AACTGCTGAC	CTCAGGCGAT	CTGCCCCCT	CAGCCTCCCA	AAGTGCTAGG
75601	ATTACAGGCG	TGAGCCACCA	AGCCTGGCCT	AAGTGACATG	TTCTTATATT	GTTCTTTTCT
75661	TTCTTTTTTT	TTGACTGAG	TCTCACCTCG	TTGCACAGGC	TGGAGTGCAG	TGGCGTCATT
75721	TCGGCTCATT	GCAACCTCTG	CTTCCCGGGT	TCAAGCGATT	CCCTTGCCCTC	AGCCTCCTGA
75781	GTGCCACCAC	CCCCAGCTAA	TTTTTGTA	TTTAGTAGAG	ATGGTGTTC	ACCATGTCCG
75841	CTAGGCTGAT	CTCAAACCTC	TGGCCTCAGG	TGATCCGCCC	CCGAGTCTCC	CAAAGTGCTA
75901	GGATTACAGG	CGTGGGCCAC	GGGGCCAGC	CTTATATTAT	TTCTTTTACT	ACAATATATT
75961	AGTATGATGC	AGGTGCTTCA	ATTGTTTATA	CACCTTCCAT	AATTTTGTAT	AATTCCTATA
76021	CCCTGTCACT	CTGAGGAATA	GCCGGTCTAA	GTGTTTTTCC	ACCACGCTA	ATTCATCCAT
76081	CACATAATCTC	ATTAGACTGT	TAATTTCCAG	AGGACATAAG	CACACAAGCA	GACAATGTTT
76141	ACAAATGTTG	GACAAATGTT	ATTTAATAAA	ACAATGGGGT	CACCCTTAGT	CTAAAAGATG
76201	TTTCACTTTT	CATTTGTCT	TGAACCTCTA	TTTGTAGGTT	CCCTTTTGAC	TTTCCACAAA
76261	TCTAAGGCTG	TTCTCTTTAA	CACATATTTT	CATGAAAACA	TATATTTGAG	CAGAAATTGT
76321	TGGGGAGTTG	TAATATTACC	TTTGTCCCTA	AATATGAATC	TATAATTATA	TCAAATATAT
76381	GGGCAGACAA	TTTACTTTGC	CTTTAATCTC	AAGAAAAAAA	TAGCAATTAC	TTGGGGTCGG
76441	AGAGTAAAT	AAGAAGTAGT	GAACCTTAAA	GTAGCAAAC	TTAGAACAGA	ATAGTTTCAG
76501	AGGGGATGAG	AAGAGGTGAT	TTTTCAGCTC	ATCAACAACA	GATCTTATAA	TAAATTACAT
76561	GTTCTGGTAC	TTTTCTTGTC	TTTCTGTGTT	AAATTTTGCT	ATTTAAAAAA	ATAAATTTCA
76621	AATACATTGT	TCATCTTAAA	AGTCAAGAGT	GTGTTTTATT	AAAGTCAAGT	GCTTTATTTG
76681	CAACTCAAAA	GATATATTTG	AGTTCCCAAC	TGGAGATTGT	CCTATATGGT	AACTTGCGTA
76741	AGGTATGGTT	ACTGAAAGTA	ACCTACAATT	TTCATGGGCT	GAAATTCATT	TCTATATTGC
76801	AGCGTACAAA	AATAAATAAA	TAAAAAATGC	TTGTTTTCTT	TGAAAACATA	TTATCTCAGT
76861	GCCTCTAACT	GCCAAATCTA	TTGGCTTTTT	TGCAGGCTTA	AGGGCTCTCC	CTTGTTCTCT
76921	TATGATCTCT	ATCTTGAGGG	CCAGACCTCC	TGCCTTACAC	AACTCAGAGG	GGGACCTCAG
76981	AGCTCTTTAA	AAAGAGCCCA	ATTTCTCGCC	TGTAGAGAAG	TGAAAAGGAT	GCCCCACCCC
77041	CATCTATGAA	AAGAGGGATT	TGATAGTTTC	AATGTCTTCA	AATCAAAGAT	TTAAGTCTGT
77101	AGCCCCCAC	CACCCCGGAC	CCTAGCAAGG	CTCATGAACC	CCCTCCCATC	CCGCCCTAAT
77161	TGCTTTGGAC	TGGCCGTGGA	ATCCTTGTC	CAGTCCACAG	TTCCTGTGCG	ACTGCACGAA
77221	GAATTCACAG	AGGACCTGTG	TTACTTCCCT	TGTGAAGAAA	CAGAAATTATC	ATGAAAATTT
77281	AGGTGGAAAC	CATTTGCTT	TTTTCTTCAA	AAATAAGGGA	AGCATGTGCC	CAACCACCCC
77341	TGGGAAAAAG	AACCTTCAGG	GGCAAAGGAG	CGAACAGGTA	ATTTATAAGA	AAAAACAGAA
77401	GTGGTCTCTG	ACTGCCCCAG	ACTTCTTTCG	GAGTTGGGGG	AATTGGGGAC	GCCTGGACGC
77461	GTTGTTTTTG	CGTTTGTGGA	AAAAATAAAT	GAAGAGCATG	AAGCCCAGAG	CTTCTGAGAT
77521	CCTTTCCTGA	CCAAACCCAA	GTGATTGGT	GCGGGGAATT	TTAATATTTT	TCCCCTTTTG
77581	TGAGGTGGAA	CAAACACAAC	TTGGGAGCAG	CGCAGCGGCT	CAGAGCCTGC	CAGCCAGGCG
77641	GGCGACCAGA	GCACCAATCA	GAGCGCGCCT	GCGCTCTATA	TATACAGCGG	CCCTGCCACG
77701	ACGCTGCTTC	ATCGGCGCTT	TGCCACTTGT	ACCCGAGTTT	TTGATTCTCA	ACATGTCCGA

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77761 GACTGCTCCT GCCGCTCCCG CTGCCGCGCC TCCTGCGGAG AAGGCCCTG TAAAGAAGAA
77821 GGCGGCCAAA AAGGCTGGGG GTACGCCTCG TAAGGCGTCC GGTCCCCCGG TGTCAGAGCT
77881 CATCACCAAG GCTGTGGCCG CCTCTAAAGA GCGTAGCGGA GTTTCTCTGG CTGCTCTGAA
77941 AAAAGCGTTG GCTGCCGCCG GCTATGATGT GGAGAAAAAC AACAGCCGTA TCAAACCTGG
78001 TCTCAAGAGC CTGGTGAGCA AGGGCACTCT GGTGCAAACG AAAGGCACCG GTGCTTCTGG
78061 CTCCTTTTAA CTCAACAAGA AGGCAGCCTC CGGGGAAGCC AAGCCCAAGG TTA AAAAGGC
78121 GGGCGGAACC AAACCTAAGA AGCCAGTTGG GGCAGCCAAG AAGCCCAAGA AGGCGGCTGG
78181 CGGCGCAACT CCGAAGAAGA GCGCTAAGAA AACACCGAAG AAAGCGAAGA AGCCGGCCGC
78241 GGCCACTGTA ACCAAGAAAG TGGCTAAGAG CCCAAAGAAG GCCAAGGTTG CGAAGCCCAA
78301 GAAAGCTGCC AAAAGTGCTG CTAAGGCTGT GAAGCCGAAG GCCGCTAAGC CCAAGGTTGT
78361 CAAGCCTAAG AAGGCGGCGC CCAAGAAGAA ATAGGCGAAC GCCTACTTCT AAAACCCAAA
78421 AGGCTCTTTT CAGAGCCACC ACTGATCTCA ATAAAAGAGC TGGATAATTT CTTTACTATC
78481 TGCCTTTTCT TGTTCTGCCC TGTTACTTAA GGTAGTTCGT ATGGGAGTTA CTGAGGTATC
78541 AGAGACGAAT TGGGTGACGG GGTGGAGAG TGGCCGTGGT GAGGTTACAG CATTTAAACC
78601 TTTATTGCGG CTTCTAGGTC CTTGACCGGA GGCTTTTCTC GCTGGCGGAT GGTTTGGGA
78661 TGGCAGTCCC GCCCCAGGCC TGTGAACGGC AGAAAAGACC GCAAAACAAG AGCCAGTTTC
78721 TTAGTCTAAA GGGATGTCCG GATTGGACTA AAAAATTTTC AAAAGTCCCG CCCTGCTCCC
78781 GGGTTGGTCC GTTCTTCTAG TACATGACTT TCATTCTGTA TTTAATTGGA TGGTGGAAGA
78841 CGTTGCTTAT TCTGTGTTTT TTGCTTTACT GTGACTTAAA AGTTTTGCCT CTTTCTCTT
78901 TATATTAATG TCTGGGATTT CGGACGCTTT CCATGTTGTT GGTAGTCAAG TTGATGTCTC
78961 CTGGAGGTAG TGGCAACATC CAGCCCTGGG AGGAGAGTGC GTGCAGGTAC CTTTGTCTTA
79021 CATTCTCTG CTGTTAATTT CTCATTCTG TGGCAACGAA GGAATGCATT TAAAAACAG
79081 CCACAACAGC GGCAATAGCC CTTCTCCAC CCAAGGCAAT CGTGGACCTA GGGAGTTTTT
79141 TGTGCCACAT AACATGTAGC CTTCCGCTAA ACTGACAGGT TTGAGCGTAT CGATTTTGAG
79201 CGTATCGAAA GCACAACTTT TAGCCAGCCA TTTTGTCTC GCATGACTAC GGTGCTTAT
79261 CCTGTTTAGA CAGACAGCAA CATTTAAAAA TCGAAGTTCC TTTAAACGTA TTTTGTGTTG
79321 CAGTCCAAAT GTTCTATGTC AGAAAACAGT ATTTGTACTA TTAATATGA AGAGTGTATG
79381 GATAAATGGG AGACATTCT AATAAAGGCC TTCGTTAATG GTTCCCTCTG TTTGACATCC
79441 ATGGTGCTTC TGAATACAGA AAGCCTAGCG TCTTATATTC GCTTCTTTTA AAATCTGGTG
79501 GGCACATTTT GGTGAGACCT AAATTATGGG GACTGGGGCT TCTGGAGATA AGCTGCTCAA
79561 TTATTCTACC ATCTCCACAA TGATTAATAT AGTGAGTTGA TTTGTTAGTG ATAGTGACCA
79621 CGGATTCATC CCAAGAAAGA GAAAGGGGAG GGAGGCAAGC AGAGAGACAG GAAGACAGAG
79681 GCAGGGAAGA AGGAGAAAC ATTCTCCCAT GGTTTAAGTA ATTTTGTGTT GTTAATTTTA
79741 CATTACAACA CGGTTTAACA TGGTGAACCC TCTATTTTGG TGTAAGGTTT AACATATGGA
79801 CATATTTTTC CCAAGACCAT TTATGAACCT TCATTTCTGC TTCCCCCTTC TTCCTCCCGT
79861 GCCACCCTCC ACGCTCCTAT CAATTTTGGC TGTTTTGTCA TAGGCTAATA CGCTATAATT
79921 TCATGGACAG TTGGACTGTC TTAGGTTTCT CAGGTTTCTA TTTTGTTCCT TTAGTCAATC
79981 CCACAATTCT TAAGGTAGAA TTGTATTGTT TTAACATTG TGTTGTGTGC TATCCTCAAT
80041 GCTGAGATGA TTATGTGACA AATGGCAAGT GTTCAACTAA TACCTAAATC TGTAGTATCT
80101 TATCAAGCCT AATGCTACTT CACAATGCCT ACTCCATTCA CCGCACTTTA TCTCATTACT
80161 GGCATTCTGT CATCTCACAT CATCACAAGT AAAACGGTAA GCTATTTTGA GAGAGATCAC
80221 AGTCATATAA TTATATTTAT ATTTATTTAT TTATTTATGA GACGGAGTTT CCCTCTGTCA
80281 CCCAGGCTGG AGTGCTGTGG CACGTTCTCG GCTCACTGCA ACCTCCGCTT CACGGGTTCA
80341 AGCGATTCTC CTGCCTCCGC CTCCCGAGTA GCTGAGATTA CAGGGCCCTG CCACCATGCC
80401 CGGCTAATTT TTGTATTTTT AGTAGAGACG GGGTTTCACT AAGTTGGCCA GGTGGTCTC
80461 GAACTCCTGA CCTCAGGTTA TCCGCCCCACC TCATCCTGCC AAAGTGCTTA GATTACAGGC
80521 GTGAACCACC GTTCACAGAC TCAAATCATT TTTATTACAG TATATTGTTA TAATTGTTGT
80581 TTTATTATCA GTTATTGCTA ATCTCTTACA GTGCCTGATT TATAAATTAA ATTCATCATT
80641 GCCATGTGTA TATAGAAAAA AACAGTGTAT ATACGGTTCA GTACTATCTG TGGTTTCAGG
80701 CATCCACTGG GGGTGCAGTT TATTAAACAT GCATTTACAT TAGTCTCCCC TTTGGGAGAC
80761 TAATTAACCT AGATGTTGTA ACGTGACTTT AATAGCAGAT AGAGCTAATT TTCTCTCATT
80821 ACTCTTCTTT TTCAGAATTT TCCTGGTTAT TCCATTTTTT ATTTTCCAT ATGTATATTA
80881 AGATCTCTTC CACCTCCTCC TGTTTCTCCA TCTCAACATC AAACAATTAA AAAAAAATA
80941 AAAGGCTGGG CGCGGTGGCT CACGCCTATA ATCCCAGCTC TTTGGGAGGC CTAGGCGGGT

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81001	GGATCACGAG	GTCAGGAGTT	CAAGACCAGC	CTCGCCAAGA	TGGTGAAATC	CCGTCTCTAC
81061	TAAAAGTATA	AAAATTAGCC	AACCATGGTG	GCAGGCGCCT	GTAATCCCGG	CTACTCGGGA
81121	GGCTGAGGCA	GAGAATTGCT	TGAACCCGGG	AGGCGGAGGT	TGCAGTGAGG	CGAGACCTTG
81181	CACTCCAGCC	TGGGTGACAC	AGCGAGACTC	CGTCATAAAA	AAAAAAGCCG	GAAGCAGTGG
81241	CTCACGCCTG	TAATTCAGC	ACTTTGGGAG	GCTGAGTCAG	GCAGATTACC	TGAGGTCAGG
81301	AGTTCAGGAC	CAGCCTGGCC	ATGAAAATAC	AGCCTGGCCA	TGAAAACACA	CAATAAATTA
81361	GCTGGGCGTG	GTGTCACACA	CCTGTAATCC	TAGCTACTCG	GGAGGCTGAG	ACAGGAGAAT
81421	CACCTGAACC	CAGGAGGCAG	AGGTTGCAGT	GAGTTAAGAT	GACGCCACTG	CACTCCATCT
81481	GGGCGACAGA	GCCAGACTCT	CTCTCAAAAA	ACTAAATAAA	TAAAAATAAA	GTTATGGTAC
81541	ATTGAACTTC	TGTGTTCCCT	TCTCCCTTAG	ATACTTTTCAT	GGCTACCCAT	TTAATTGATG
81601	TTCTTATCAT	CTCCAAGAGT	TAGTCAGGAG	AGGAATCAAC	CCAAGCAAAA	ATAGCTGATT
81661	TTCTAATTTT	CCTTCAATGC	CCTTTGGGGT	CTTAATCCAT	TTGATTTATG	TACTTTCAAT
81721	TAATCCTAAC	CTCGAATGTC	TTCTGCAAAC	ATGTTTCCAC	AGATGAAACT	CGTCAAATGA
81781	AACACATTCC	TTTAATTTAT	AGAGTTAAAA	ATTAGAAAAA	TTTTCAATTC	TATTTGGCCT
81841	TTAGATTGAG	TCTTGCATAT	GTTTTCTCAA	TTTTGTTTCAT	GCTCTTTAGT	TTTTGTTTTAT
81901	TCCATCACAA	TTGTTCCAT	AGCTTACTGG	CCTAGGTCTA	ATGAACCATT	CATTTGGAAA
81961	TTAAAATTGG	CCATTTTAAG	ATGAAAAAGA	TTCTTGCCTC	AATTTTACTT	AGTTTTTGAA
82021	ACTGTCAATG	AGGACACATG	TTTTTCTGTA	CTCTTAGATT	CACTAAGTAG	TGTCTTGCAA
82081	ATTTAACTGA	CAAAGGACAG	ATTAACATGC	GAIAAAAAAAAA	GCATGCAATT	TTATTAGTAT
82141	ATTACATGCA	CAGAGTTCCC	AAAGAAAAAA	AAATTGAAAC	CTTAAAAACG	CGGTTAGACT
82201	CACAGACTTA	TACACCATT	CAACAAAGGA	AAGGGAGTTT	GCACTTCATG	GGATGACGAA
82261	TTTGGAATG	TGACAAGGAA	ATAAATACAT	GGGCAATAAA	AACCATGGAA	GATAAAATGA
82321	AAGATAGAAA	TAATTGTAAGT	AAGGTTTGTT	TTTGCAGAGT	CATCTCAGTG	CCAACCTTCC
82381	ATATCTAGTG	ATAAGAATTG	CTCTCTTTTT	CCTGGTATAG	CAGTTGGGGA	CACTTTTACA
82441	AGGAAAATT	CTGTCACCTT	CACAAAGGGA	AATTTGGGTA	AAGAGAAGAC	AGAGACCTCT
82501	TCCTACACCT	GTTGATTTTC	AATTGCCTTC	AGCTGAAAAAT	AACCTTTATG	CCAAAGTAGA
82561	ATAATTTGGG	GGTGACATCC	TGATATTCTT	CAAACTTAT	ATTTAATTTT	ACATTAGTAA
82621	TTATATCATT	TTTGATTTTT	AAATTAGTTT	TATAAAATAA	TTTTGAAAAA	CGGTAAATAA
82681	ATTCAAATAA	TTCCAGAAAC	ACTGCTGATA	AGCCAAAAAC	ATCAATGAAT	ATTGCATAAA
82741	CAACTGATAA	TTCAACCATG	AAAATTTATG	ACATTGTTCT	TGTGTGATAA	AACTATGAGT
82801	AACATAAAAA	CTAGAGGCTA	CTTGTAATGC	ATTATTCCAA	ACTTTCTGTT	TTTTATTTAT
82861	TTATTTATTT	ATTTTGAGAC	ATAGTCTCTC	TCTGTCACCC	AGGTTGGAGT	GCAATGGCGT
82921	GATCTTGGTT	CACTGCAGCC	TCCACTTCCC	CGGTTCAAGC	AATTCTCCTG	CCTCAGCCTC
82981	CTGAGTAACT	GGGATTACAG	GCACCTGACA	CCAAACCCGG	CTAATTTTTT	TGTATTTTTA
83041	GTAGAGACGG	GGTTTCGCCA	TGTTTGCCAG	GCTAGTCTCG	AACCTCTGAC	CTCAGTGATC
83101	CACCTACCTC	GGCTTCCCAA	AGTGCTAGGA	TTACAGGCGT	GAGCCACCAT	GCCCGGCGCA
83161	TTATTCCAAA	CTTTCATACA	CAGTGCTATC	ATGGCTACAA	ATTGAAGTAT	CATATTATAC
83221	ACTCCTAGGC	AAAGCTCTGG	ATATTTTGGC	TATATAAGCC	TGAGGGAAAT	GTAGTAAGGA
83281	CATTGTGGTT	GAAATTCATA	CCAGAGATGA	ACAGGCCCCAG	TGCAAGACAG	AATTACATCA
83341	CTAAAGGATA	TCAGAAGAGA	ATAGGGATTT	AGGGTACAGT	GGCAACAACA	GTTTTGGGAA
83401	CTAGCATTTT	TTGAGCACTT	ATTTACAATA	TGCCAAGCAC	TGTTGCTGAT	TACTCTATAT
83461	TTATTTTCAA	ACACATTCTT	GTCACAGCAC	TTTGAAGTAA	GTGCCATTGT	CATTCCCCT
83521	TCAGGGTGAA	GGACTAAAGC	TTGGTGTCT	TAAGGATGTA	GCTAGTTAGC	TGTGTGTGTG
83581	TGTGTGTGTG	TGTGTGCATT	TTTTTTTAAA	TTTAAAGTCA	ATAAATTTTT	ATTTGAAGAA
83641	TTTCACATCA	AGGTAAACTT	TGTTCTCTCTA	AAGAGCTGGA	GTCAAAATGT	ATCTTCAAAA
83701	GATTCATCTT	CAAGTTAGCC	CTTCTTAATA	GAACTGATGC	TTAATCCACA	GTTGTGAGCC
83761	CACAGTTCTT	TTATTTTGAC	TTTTTTTTTT	TTTTTTTTTTG	AGACGGAGTC	TCTCACTGTC
83821	ACCCAGGCTG	CTGGGCAGTG	GCGTGATCTC	GGCTCGCTGC	AACCTCTGCC	TCCCGGGTTC
83881	AAGTGATTCT	CCTGCCTCAG	CCTCCTTAGT	AGCTGGGACC	ACAGGCGCAT	GCCATCGTGC
83941	TCGGCTAATT	TTTGATTTTT	TATTAGAGAC	AGGGTTTCAC	TATGTTGGCC	AGGCTGATCT
84001	CAAACCTCTG	ACCTCATGAT	CCGCTGCCT	TGGCCTCTCA	AAGTGCTGGG	ATTACAGGTG
84061	TGAGCCACTG	CACCCGGCCT	TATTTTGCCT	TCTTTAATCT	CCATTTGAAC	ATGGACATAC
84121	TGATGAAAAC	TACAACATTC	TTCAACAAAA	ATCTTTGGGA	TTTAATTTCT	TCAACCACTT
84181	TACTTTGGGG	TCATTTTAAG	ATTAGGTGTA	TCTGCCTGGT	TCTCAATTTG	ACACCCCTTC

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84241 TCTCTAAACA TGAATGAGTT CCAATCATAT TTATTCCTAA GCTATCACAC TCAAATATAC
84301 TACAGATCTG TGGAAATATGC CAAAAGTTAA GGTGAAAAAT TAAATTATTA GGTATTTTCAT
84361 AGTTTTGCTA GTTTTTGATC TGTGAGTGAA TATAACTATC CTCTATGTCC TGGCACTGTT
84421 CCTCAGAAAC ATAGGGTCCA CATATGTAAT TTTAAATTTT TTAATAGGCA CATTTTAAAA
84481 AGTGGAAAAA GAAATCTATT TTAATGATTT GAATCCAGTG TAACCAAAAA TTGTTTCAAC
84541 AAGGTATCTA ATATTAAAAAT ATTGAGTTTT TACTTTGTTA TTTTACTAGG TCTTTGAAAT
84601 CTGGTGTGTA TTTTACACTT AAAGCACATC ACAGTTTGGA GTAGCCACAT TTCCAATGCT
84661 TAATACTCAC ATATGGTTAG TGGCAACTAT CTGGACAGG ACAGCTTTTA TACTCTGGGA
84721 AGACACAAGC AAATACTTGC TCTGCAGCAG AATCCAGATG TTTTCCAAGA AAACACTTTT
84781 TCTGACCTGT TCGTGAAACC CAGGTAGTGT CTCTAATACT TTATATTTTA TTGGTTTGTC
84841 CTATTGTAAC CACCCAACGG GCTCTCCTTG TCCACTTCCT AGACAGAGCT GATTTATCAA
84901 GACAGGGGAA TTGCAATAAG GAGCCAGCGC TACAGGAGAC TAGAGTTTTA TTATTACTCA
84961 AATCAGTCTC CTTGAGAATT TGGGGACCAA AGTTTTTAAG GATAATTTGA TTGTAGGGGA
85021 CCAGTGAGTC GGGAGTGCTG CTTGGTTGGG TCAGAGATGA AATTATAGGG AGCCTAAGCT
85081 GTCCTCTTGT GCTAAATCAG TTCCTGGGAG GGTGGGGTG GGGGACTCAA GACCAATAA
85141 TCCAGTTTAT CTATATGGGT GGTGCCAGCT AATCCATTGT GTTCAGGGTC TGCAAAATAG
85201 CTCAAGCATT GATCTTAGGT TTTAAAATAG TGATTTTATC CCCAGGAGCA ATTTGAGGTT
85261 TAGAATCTTG TAGCTTCCAG CTGCATGACT CCTAAACCAT AATTTATAAT CTTGTGGCTA
85321 ATTTGTTAGT CCTGCAAAG CAGTCTGGTC CCCAGGCAGG AAAGGGGTTT GTTCTGAAA
85381 GGGCTGTTAT TGTTTTTGTT TAAAAGCAAA AGTATAAACT AAGCTCCTCC CAAAGTTAGT
85441 TAATCCCAA CTCAGGAATG AAAAGGACAG CTTGGAGGTT AGACGTTAGA TGGAGTCGGT
85501 TAGGTAAGAT CTCTTTCAC GTAAATAATTT TCTCAGTTAT GATTTTTGCA AAGGCAGTTT
85561 CACTGTCCAC TTCACCTCAC ATCAGGCCTC TGACTAGAGG ATTCCAACAA TACTTAGGCC
85621 AGGACACCAC CATGTCTCCT TATCCACCCT GAGGGATTCC AATTTCTGAA ACAAAGGAAA
85681 CTATATATGA TAGTATGAAA CTATATATGA GAAGGAAAT ATATATGATA ATCAATTTTA
85741 GGGTTATCTT ATTGATTAGA AGATATTAAA GTGTGACACT GCCTGGCAAT GATATCTGCT
85801 GGTAGTAAGA ATTTGGCGAA TTTAGTGAAA TTCCTGAGG TGAACCTCCA CTCTGTAAA
85861 ATGGAGACAG TGAGATAATT TGCCTTACAA TGCTGAAGTA AGAATTTTAC ACAATAATC
85921 AGACCAACCA CTTTATGTTG TACTTGGCCC GTGGAAGACT ATCAATGACA GTTAGTTTAT
85981 AGTTTATACT ATTAATGAAT CCTTGTGTTT ATTGTTATTT CCTTCTACAC GTTGGCCTCT
86041 GTAAAGAAG GTAATATTCA ATACAAATAA AGTTAAAACA GCTTGCAGAG TTGTCCCAGG
86101 GAACTCACTT AACCCTGAA GTGTTCAAAT TGCTTAAGGT TGACTTTATA TTCTCCTGAC
86161 TAACCTTTCT CCTTCTGGTA TTTCTTCTGA GAACAGCACC ACCATCCAAA GCATCATGCA
86221 AACAGTGGTC ATCCCAGACC AGTAATTCTC AACTCACAGG GTGCTCCTGC AGAGATGTAT
86281 TTGAATAGAG TGGTAGGATG CTGAAGAAGC CCACGTAAAA TTTGGCCAGT GATCTGGGGC
86341 AGATTTATCC TGAAGCTAAT GAAACACAAG TGTAAGGGCC TGTACTTCCA AGGTGCAGAG
86401 AGGGGCCCTA CAAATGTGTT AGTTTGTCTC TCTCTCTCTC TCTGATTTTA AAATTTGCAG
86461 TATTAAGGTA CTTTAATCAC GGATGGTTCA GGCTGCTATT TTCACTCAAT CCTCCTTTT
86521 ATTAAAATCA CCATTGTCTG ATTATGTTAG AATCCTGATG AAAATATTTG GAATTTGAGT
86581 AAGAGAAAGT TTAGTTGAAG ATGTATCTAG TATGGGGATA ATAAGTTACG TGATTTGCAT
86641 ATGTGATCAT GTGTACTTCA TTCGTTGCCA GCCAATCTGA CGTAAGAATG GCTTCAAGGA
86701 GGCCGGGCGC GGTGGCTCAC GCCTGTAATC CTAGCACTTT GGGAGGCCGA GACGGGCGGA
86761 TCACGAGGTC AGGAGATCGA GACCATTCTG GCTAACACGG TGAAACCCCG TTTCTACTAA
86821 AAATACAAAA AATTAGCCGG GCGTGTGGC GGGCGCCTGT AGTCCCAGCT ACTTGGGAGG
86881 CTGAGGCAGG AGAATGGCAT GAACCTGGGA GGCGGAGCTT GCAGTGAGCC GAGATCGCGC
86941 CACTGCACTC CAACCTGGGA GACACAGCGA GACTCCGTCT CAAAAAAGAA AAAAAAGAA
87001 TGGCTTCAAG GAATGTTCTT ACTGCTCACT GGAATAACTC ACCTAAATTC CTGGCAAGAT
87061 GCAGGTCTAG ATAAAATGTT ATGACATCTA AGTATTCAA ACACATTCCC AGCACTGAGA
87121 GTGAGTGTCT AGTGGAGAGT AGAAACGTAT AGAGCCAGAA GCTAGTCTGG AAAGATTCT
87181 TACAAAGTTT ACAACTTACA TGTGAAAGGA GCTTAACAGA GGATTTTCCA AATTTGAAAA
87241 CAATCCTAAA AACTTACTTG ACATTACCAA TAATGTGTTT TGAAACTGAA ATACTTCTAA
87301 GTTATGAAGA AAACATATTA TCATCAGCCA CCCTGGAGGA AAGATTGAAT TCTATTCCA
87361 TTACCTATAG ACAACATTAC AAAATAATTT CGATCTGAAG ATGGAATCAG AGTATTCACT
87421 CAAAACCTACA GGAAAATATA CTTGGTAGTG TCATATTCAAG AAGTTAATAA AATATGCTAT

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87481	TTTCTGAATT	TTGTGATGGC	TGTTGTTTTG	TCAGCTTTTA	TAAAATTGGA	ATTTGATTTT
87541	ATTTTCCCAT	TATAAATTTA	TATTTACAGT	CTGCAGTACT	TTTGCATTTT	TAATTTTACA
87601	TTATAGCTTT	TAATAGTTAA	CAAGTTGTAA	AAGGTTTGAT	CCCCAGAAAA	CCTTGATCTA
87661	CCCCCTCAGT	TAAGTATACT	AATATATTTA	GAAAATGGAT	GAAATCAGCA	TTTGAATATT
87721	TTTAAATATT	TATTA AAAAGA	GGACATGGGT	AAAAGAGCTT	TGCAGTTGCC	ACCCCTTCATT
87781	CTCAAATTC	CTGGATAAGG	ATGACCGCAT	AATCTTTGGA	TGGTCATACG	CAAGTCTTGT
87841	GTATTTGTTA	CATAAATCTA	TTTAGTGGAC	TTTGGCAGT	GTGTACTGAG	GCCAGTTTCT
87901	TCCACCTGAG	CTCTGACTCC	ACCTCCAGCA	GCCCAAAACC	AATACTGAAT	TTTGGGGTCA
87961	GCTATTGTTT	TTGTGGACTT	AGGTAAC TAC	ACACACATTG	TCTTTATGAT	AGCTTTAATA
88021	ATACTGCCAT	CAGAACTAAA	ATTGTCACGT	GGATTA AAAAG	GAGTGACGGT	GGTGTCCCCA
88081	GGAGCCTTTC	AATATGTAAG	TATTTACACA	TATACATGCT	AAAAAGACCC	CTAGGAATTT
88141	TTTTAACCAAG	GGCAAAACAG	TAACTCAGCT	TGTTTTCTCG	CAGTAAAACC	GGTTGAAAAG
88201	GCCTGATAGA	CTTGTCTGCA	GTTACAAAAC	TTGTGTGTAG	TTATCACCTT	TATATCTCCT
88261	GGAAACTAAC	ATAGACAACC	GAATGGGTTA	CAACTGTTTT	TAAGTGAAAT	TGTGAGTGGC
88321	TCTGAAAAGA	GCCTTTTCAA	TGAGGAAGAA	ACGGGCAGAC	TTATGCCCTT	TCCCCACGGA
88381	TGCGACGTGC	CAGCTGGATA	TCTTTGGGCA	TGATGGTGAC	GCGTTTAGCG	TGAATAGCGC
88441	ACAGATTGGT	GTCTTCGAAG	AGTCCCACCA	GGTAGGCCTC	GCAAGCCTCC	TGCAGCGCCA
88501	TCACCGCAGA	GCTCTGGAAA	CGCAGGTCGG	TTTTGAAGTC	CTGGGCGATT	TCTCGCACCA
88561	GGCGCTGGAA	CGGCAGCTTC	CGGATCAGCA	GCTCGGTGGA	CTTCTGGTAG	CGACGGATTT
88621	CGCGCAAGGC	CACGGTGCCC	GGGCGGTAGC	GATGAGGTTT	CTTCACGCCA	CCGGTGGCCG
88681	GAGCGCTCTT	ACGGGCTGCT	TTAGTAGCAA	GCTGCTTGCG	CGGAGCTTTG	CCGCCGGTAG
88741	ACTTGCGAGC	TGTTTGCTTC	GTACGAGCCA	TTTGCAATGA	GAGCACACAC	AAAAGTGTAG
88801	TGAACTGAGA	GCAAGTGGCC	TTTAAATATA	GTGAGAAAACA	TTCTGATTGG	TCCTGTAATA
88861	TTTCAAAAGT	CCCGCGCGAT	AAAATCATTG	GCTGAAGAGT	GACCAGACTG	ATTGGTTTCAT
88921	TACTAGACAA	TCTTATTGGA	TGAGTTGCCC	CACCGCCCAT	CCTGTCCTTT	TCGTTTCAGT
88981	TATCTGCAGC	GACAAATTGT	CTAAAATTCT	AGTTCATCCA	GTCCCAAAGA	ACAGAGTGTA
89041	TAACAAGGTA	TCTAAGGATT	TTTAAATGT	AAATTCGGAT	TCAGTAAGTT	TGAGTGGGAC
89101	TTGAAATTCT	GCATTCCTGA	CAGTCTCGCA	AGTTATCAAT	GCTGGTGAAC	ACTCACTAAA
89161	CCACCAGAAA	CGTTCAGACT	CATGTCGGGA	AATAACGCTT	ATATTAGAG	AATGAGATTC
89221	CATGCTATTT	TGTTACTGGC	GAACAGCAAAG	TTTCCTTGCC	CTTTGTTTTT	TAAGTCCAAG
89281	TCACATTCCC	ACCCTGCCTG	TTCTCAAAAT	GTCTTATTTT	GGTTGGCCTT	AAGTTTCACT
89341	TTGTATACTC	TAAAATGTAC	TTTCTAAAGG	AAGGTGTTAT	TTTCTCGAAA	CTTAATTTT
89401	TAACACCATT	AGGCTAGGGG	GGCGGTGGCT	CACGCCTGTA	ATCCCAGCAT	TTTGGGAGGG
89461	CGAGATGGGA	CGATCACTAG	AGGCCAGGAG	TTCAAGACAA	CCCTGGCTAA	AATGGTGAAA
89521	CCCCGTCTCG	CATAAAAATA	CAAAAAC TAG	CTGGGCGCGG	TAGCAGACGC	CTGTAATCCC
89581	AAGTACACAG	GAGGCTGTGG	CATGAGAACC	GCGTGAAGCG	GCGGGGTGGA	GGTTGCAGTA
89641	AGCCGATATC	GCGCCGCTGC	ACTCCAGCCT	GGGTGACAGA	GCTAGACTGT	CTCAAAACAA
89701	ACCAATCCAA	ACGAAAAGCA	AAAAATACCC	TAACAGAAGC	AAGTTATCAT	CCTTCTTGT
89761	GTAAC TATGG	ACGGCTCTGA	AAAATGCCGT	TTCAAGTGTA	AGCTACGTTT	TCTGATTTGA
89821	GTGTTTACTT	GACCTTGGCC	TTATCGTGGC	TCTGTTATTT	TGGCAACAGG	ACGGCCTGAA
89881	TATTGGACAG	GACGCCTCCC	TGAGCAATAG	TGACGTTGCC	CAGCTGCTTG	TTGACCTCCT
89941	CGTCGTTTCG	GATGGCCAGC	TGCAGGTGGC	GGGGGATGAT	GCTGCGGGTC	TTGTCAACGTA
90001	TGGCGCTGCC	CACCAGTTCT	AAGATCTCGG	CGGCCAGGTA	CTGTAAGTAC	ACTGGCGCAC
90061	CGGCTCCGAC	CGGCTCAAAA	TAATTGCCCT	TTGAAAAAG	ATGACGGACT	CTGCCCTATT
90121	GGGAACTGCA	AGCCCGGTAG	CGACGAACAA	GTTTTTGCTT	TAGCTCCATT	TTCCACGTCC
90181	GCAAAATAGCG	ACCTATGAAA	GCAGCGGAAA	ACTGTGAAAG	ACAAGCAAGC	TGGAATGGCG
90241	CCTGAACAAA	TCCTTTTATA	CAAACTGCAA	GCTGCAATA	GGAAGCTATC	CTATTGGTCA
90301	ATTATGTTTG	GTGCTTTATC	CAATAGAAAA	AGATAACATA	AATTCCATAT	TTGCATAAAC
90361	CCCACCCCTC	AGTGAAACCG	TGTTTCTTTT	GTCCAATCAG	AAGTGAGGAA	TCTTAAACCG
90421	TCATTTGAAT	CTCAGGACTA	TAAATACATG	GGCTCTGAAC	TGTTCTCTGT	ACTACTCTGT
90481	AGTGGAGAGT	GTTAGTAGCT	TTTCTATTCT	GTTTAGGAAT	AGCAATGCCT	GAACCCCTCA
90541	AGTCTGCTCC	AGCCCTAAA	AAGGGTTCTA	AGAAGGCTAT	CAC TAAGGCG	CAGAAGAAGG
90601	ATGGTAAGAA	GCGTAAGCGC	AGCCGCAAGG	AGAGCTATTC	TATCTATGTG	TACAAGGTTC
90661	TGAAGCAGGT	CCACCCGAC	ACCGGCATCT	CATCCAAGGC	CATGGGGATC	ATGAATTCCT

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90721	TCGTCAACGA	CATCTTCGAG	CGCATCGCGG	GCGAGGCTTC	TCGCCTGGCT	CACTACAATA
90781	AGCGCTCGAC	CATCACCTCC	AGGGAGATTC	AGACGGCTGT	GCGCCTGCTG	CTGCCTGGGG
90841	AGCTGGCTAA	GCATGCTGTG	TCCGAGGGCA	CTAAGGCAGT	TACCAAGTAC	ACTAGCTCTA
90901	AATAAGTGCT	TATGTAAGCA	CTTCCAAACC	CAAAGGCTCT	TTTCAGAGCC	ACCTACTTTG
90961	TCACAAGGAG	AGCTATAACC	ACAATTTCTT	AAGGTGGTGC	TGCTGCTATT	CTGTTTCAGT
91021	TCTAGAGGAT	CAACTGGAAT	GTTAGCGAAG	ACAAGTTTTA	GAGCCAAGGT	TAACCTGGAC
91081	GGGGCCGTGC	GCGGTGCCTC	TTGCCTTTAA	TCCCGGCAAT	TTGGGAGGCC	GAGGCGGGCG
91141	GATCACTTGA	GGTCGGGAGT	TCGAGACTAG	CCCGGCCAAC	ATGGCGAAAG	CCCGTCTCTA
91201	CTAAAATACA	AATGATAGAC	GGTCGTGATG	GCGCTCTTTC	TCATCTGTCT	TAGCAAACCTT
91261	CTTTGTTCCT	CCTGGGTAA	CCTTCGGGTA	CTATGTATAA	TTCCCTTGAT	AAGGTCACTA
91321	CTCCCTCCCT	GGTCTAGTAC	AGGAACTTC	CCTTCTGGA	TAATGAAGCA	GGTAATGGAA
91381	TTCAGGGTAT	AGTGTTCCTG	TGGGGGTCAT	TAGCCGTTAA	CTTCTTGTA	GATGCGGGGG
91441	AGGGGAGCAG	AAAAGTCTAA	GCGACAAAAG	GGCATGTAGG	GATATTGCT	CCTGCAGCTT
91501	GCCTATGCTG	TAAATTCTTA	CTTCAAGTAT	TGAGGAAACA	ATAAGCGAAG	TCTGATTTC
91561	CGGGCGCCTT	TATACGGAAT	ATTTCCTGCT	CCACAAAATG	AAATCGCAGT	AGTTTTGAGT
91621	TATAATTGTT	TATCAATGAC	AACAGCTATG	TAGTTTACAT	ATTTTCATGCA	TCCCAGAAAT
91681	CCAGATTCCC	ATTTCTTAAG	CCACTTAACG	TTCTGATTTT	CAGCTCTGCG	AGATACAAAA
91741	GGGTTTGGAT	TTTGTGCCCT	TCCCCATCTG	GCGCCACTGC	AAAGCTTACT	AGGAGGGCCC
91801	CACTTGAGAG	GGGAAATCTT	TTTCGAGAAG	TCCAGGACGC	CAAAAACAAT	ATAGCTAAAA
91861	AAAAAAAAAA	AAAAAAGGCA	GGAAGAGCAC	TAGTTGAGGA	GGAGGACTCA	ATGGGCCAAT
91921	TCTGGGGCTG	GGGCTGGGGG	AAGAAATGCA	AGAAGAAAAG	ACACTTGTTG	ACTGCACAGT
91981	AAGCAGGAGG	GGGTGGGGGA	ATCGGAGGGG	AGTATTTTCA	GCGAATTTAT	GGGCATTATA
92041	TGTAGGTGAC	ATACAGCAGT	GTCTTTGGAT	GAAGAAATAA	AGTTTCTCAA	ACAGTTCTTG
92101	TTTTTGTGTT	GAGAAAGGGC	CTTCTCTGCT	CGGCCAGGCG	CCATCATAGC	TCACTGCAAC
92161	CTCGACTTCC	CCAGCTCAAG	CGATCCTCTT	ACTTCAGCCC	CTTGAGTGGC	TGGGACTAGA
92221	GAAATGCACC	ACCATACCCA	GTTAATTTTT	TAATTTTTTG	TGGAGGCCAA	GGGTCTTACT
92281	TTGTTGCCCA	GGCTGGTCAA	GCGAACTCCT	GGGCTCAAAT	GATCCTCCCG	CCTTGGCCTC
92341	CCAAAGTCCT	GGGATTATAG	GAATGAGTCA	CCGCGCCCGG	CCCAGATTTA	ATTTTTAAGA
92401	ATCTTTTAAA	AGAGGTTCTG	GGCCGGGTGT	GCTGCAGCTC	ACGCCTGTAA	TACCAGCATT
92461	TTGGGAGGCC	AAGGTGGGAG	GATCCTTTGA	GCCCAGGAGC	TCAAGACCAG	TCTGGGCAAC
92521	TTAGTGAGAC	CTTTTGTCTC	CACCAAAAAT	TTAAAAAATT	AACCAGGCCT	GGTGGCACAT
92581	TTCTGTAGTC	CCAAGTACTG	GGGAGGCTGA	AGTGGGAGGA	TCATTTGAGC	CTGGAAGGTG
92641	GAGGTTGCAG	TAAGCTGTGA	CGGCACAAC	GCACTCCAGT	CTGGGTGAGG	ACAGACCCTG
92701	TCTCAAAAAT	AAAAAATAAA	AAAAATCTG	GATGCCACAC	AAAATGTCAG	TGAACAACCTG
92761	TAAGTGAAGC	ACTTCCCATC	CTAGTACTGT	ATATGCAAAC	TGCCGTTGTG	AAAGTGACGC
92821	TTGGCTTAAA	AATCTACATT	CTTTTTTTTAA	TTATAAAACT	ACCACATCCC	CCAAAAACAT
92881	TACTAAGGAA	TTGAGGCTGC	AGTTTAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAGAAG
92941	TGAGACCTGG	TAATATAAGC	ATTTTCAAAA	TGAACTTTTG	GGCCAGGTGA	GGTGTGTCAT
93001	GCCTGTAATC	CCAGCACTTT	GGGAGACCTA	GTCAGGCAGA	TCACCTGAGC	TCACAATTCTG
93061	AGACCAGCCT	GAGCAACATG	GCGAAATCCA	GTCTCTACAA	AAAATTAGCA	GGGCGTGGTG
93121	GCATATGCCT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTAC	TTGAGCCCGG
93181	GAGGCAGAGG	TTGCAGCAAG	CCAAGATCGC	GCCGCCACAG	CCTGAGCGAC	AGAATGAGAT
93241	ATGCACCCAC	GCCCTAAAAA	AAAGCATGAC	TCATTAAAAA	AAAAAAATTT	AGCCGGTCCG
93301	GGTGGCTCAC	GCCTGTAATC	CCAGCACTTT	GGGAGGCCGA	GGCGGGCGGA	TCACGAGGTC
93361	AGGAGATGGA	GACCATCCTG	CTTAACACGA	TGAAACCCCG	TCTCTACTAA	AAATACAAAA
93421	TAATTAGCTG	GGCGTGATGG	TGGGCGCCTG	TAGTCCCAGC	TACTCGGGAG	GCTGAGGCAG
93481	GAGAATGGCG	TGAACGCGGG	AGGCGGAGCT	TGCAGTGAGC	CGAGATCGCG	CCACGGCACT
93541	CCAGCCTGGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAAAA	AAAAAATAAA	AAAATTAAAA
93601	AAATATGAAG	TTTTGAAGCA	GAAATTATTT	TGTCGTATGT	TCTTTCATAA	ATTTTTTGCC
93661	TGCCCTGCCCT	CTTCTTTTGT	TACAGAACTC	CAACACTTAC	CCAAAGGTAG	CTGTTGGGTC
93721	AGGGTTTCTG	TACTATAGTC	CCTTCTGTGG	TGGCCAGAAA	TATGTTACAG	GAAAGAGGTC
93781	CCCATCCAGA	CCCCAAGAGA	GGGTTCTTGG	ATCCCGCGCA	AGAAAGAGTT	CAGGGTGAGT
93841	CCGCAAGTGA	AAGTAAATGC	AAGTTTACTA	AGAAAGTAAA	GTGGTGAAAC	GACAACTACT
93901	CCATAGACAG	AGCAGGACAT	TCCCGAAAGT	AAGAGGAGGA	AGGCATCCAC	CCTAGGTACA

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93961	ATACTTGTAT	ATATGGGGAG	ATGTGCTCTG	CTACAAGTTT	GTGATAAAGG	ATTAATTTTC
94021	TTAGTTACTA	TATTTTGCAA	GAATCAACAT	TATTATCTTT	AAACAAAATT	AAGAATGCCT
94081	TTGTTCTCCA	GATATAGGGA	TATCTGGACA	CTCCTAAGTC	TGAGTCTGTT	TAGTAAACAT
94141	TATTTATTTG	TTCCCTTAAC	CGTAAACATC	TAGAAGCTAG	GAATGACTGA	CTTTCTGGGA
94201	ATGCAGCCCA	GAAAGTCTCA	GCCTCATTTT	CCTAGCCCTC	ACTCAAAATG	GAGTTACTCT
94261	GGTTCAAGTA	ACTCTGACAC	TTTTCTTCTC	TTTTTTTCTT	CTTTTTTCCT	TCCTTTATTT
94321	TTTATTTTTT	ATTTTTGAAA	TAAGAAATCA	AGAATACTTG	ATGTTTCATC	TAAAACAATA
94381	CCCATAATTG	ATAAGCCAAA	ACAAAAACCT	AGGTCCTCTA	ACTCAAAACT	AGGATGTTTT
94441	GCTGTCTCTG	CTGATACTCG	GCTGATCGTT	AATAGGTAAT	TAACAAACAA	GCCTTGCTAT
94501	GTCCCCCTCA	GTTTATTACC	ATTAGATCAT	ATGCCTACTG	TCAATCATAT	TAATCCACAA
94561	CTATGCAATT	CACAAAACCT	GCCATAAAAA	TTCACAGGTT	TCCCCTTCC	CTCGAGTTTT
94621	CATTTCGAA	GGGTCCCATG	TAATATAAAA	CTTATATTAA	ATACATTTGT	ATGCTTTTCT
94681	CTTGCTAATC	TTTTTTTTTG	TTTTTTGAGA	CTGAGCCTTG	CTCTGTCAAC	CAGGCTGGAG
94741	TGCAATGGCG	CGATCTCGGC	TCACTGCAAC	CTCCGCTTCC	CAGGTTCAAG	CGATTCTACT
94801	GCCTCGCCCT	CCCGAGTAGC	TGGGACCACA	GATACGTGCC	ACCATGCCCC	GCTAATTTTT
94861	GTATTTTTAG	TAGAGACAGG	GTTTCACCGT	GTTGGCCAGG	ATGTTCTCAA	TCTCCTTACC
94921	TCGTGATCCG	CCCGCCTCGT	CCTGCCAAG	TGCTCGGATT	ACAGACGTGA	GCCACTGCAC
94981	CCGACCAATC	TGTCTTTTTG	TAGAGGGGCC	TCAAGCATGA	ACTTACTGAT	GGGTGAGAAA
95041	AACAGAATTT	TCTTTTCCCC	TACAATATAA	ACATTAATTG	TAATGTTATC	ATTCAGGACA
95101	TTTTGGTGAC	CAATCTTACA	GAAATTTTAT	CTTGTGCAAG	TCTATGCAAA	CCAATATGTA
95161	AATCTTCTAT	AAGTGAGATT	GTATTTCACT	TTTCTAGTAT	CCTTTTAAAT	TAATAAAAGA
95221	GATTCTAATG	ATTATTTTCA	TTACTGCATT	TCATTGTAGG	GAAGTAGATA	ATTGCCCTTT
95281	ATTCCTGAC	CTTCGCTTTT	TAAAAATTTA	AACCATGTTA	CCATGAAAAT	GCTTTTCAGT
95341	ATTTCTCTAC	ACACAAGATT	GCTGTAAGGG	CAAAAATAGA	GATAGGAATC	ATGCATCCAT
95401	TGATATACAT	ATTTTGATTT	TTAATACATG	TTACCAAGTT	GCCTCCTGAA	GGTCTGTTTA
95461	CACTCTCACC	AACAGGGTGT	TTTTTCCTGA	CTTCCACAAA	TGCTCTTGAA	CAGTGGGTGT
95521	GTTAGTCTGT	TCAAATTGCC	GACATGAACA	ATTAAATCTC	ATTGTTGTTT	TTATTTTTAA
95581	GACAATTATT	GTTTGAGACT	GCACATTTTG	ATAATAACAT	TTCTTCTATT	ATGGTTTGAT
95641	TACTCATGAT	TCTTGCCCAT	TTTCTTTTGG	GATGTTGCCT	TATGTACATT	ATTTTAAATA
95701	GATAGCTCCA	TGTATTAAAA	GATTATTAA	TTTGAGGGCT	TATGATATGT	CAGTTACATT
95761	TCTAAGATT	TTTTTTTTTT	TTTTTTGAGA	CGGAGTTTCA	CACTTGTTGC	CAGGCTGGA
95821	GTGCAATGGT	GCGATCTCGG	CTCACCAGCA	CCTCCGCCTC	CAGGGTTCAA	GCAATTCTCC
95881	TGCCTCAGCC	TCCCCAGTAA	TTGGGACTAC	TGGCAAGCGC	CACCACGCCT	GGCTAATTTT
95941	GTATTTTTAT	TAGAGATGAG	GTTTCTCCAT	GTTGGTCAGA	CTGGTCTCGA	ACTGCCGACC
96001	TTGGCTTAAA	AATCTACATT	CTTTTTTTTAA	TTATAAACT	ACCACATCCC	CCAAAAACAT
96061	TACTAAGGAA	TTGAGGCTGC	AGTTTAAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAGAAG
96121	TGAGACCTGG	TAATATAAGC	ATTTTCAAAA	TGAACTTTTG	GGCCAGGTGA	GGTGTGTCAT
96181	GCCTGTAATC	CCAGCACTTT	GGGAGACCTA	GTCAGGCAGA	TCACTTGAGC	TCACAATTCTG
96241	AGACCAGCCT	GAGCAACATG	GCGAAATCCA	GTCCTTACAA	AAAATTAGCA	GGGCGTGGTG
96301	GCATATGCCT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTAC	TTGAGCCCGG
96361	GAGGCAGAGG	TTGCAGCAAG	CCAAGATCGC	GCCGCCACAG	CCTGAGCGAC	AGAAATGAGAT
96421	ATGCACCCAC	GCCCTAAAAA	AAAGCATGAC	TCATTAAAAA	AAAAAAATTT	AGCCGGTCCG
96481	GGTGGCTCAC	GCCTGTAATC	CCAGCACTTT	GGGAGGCCGA	GGCGGGCGGA	TCACGAGGTC
96541	AGGAGATGGA	GACCATCCTG	CTTAACACGA	TGAAACCCCG	TCTCTACTAA	AAATACAAAA
96601	TAATTAGCTG	GGCGTGATGG	TGGGCGCCTG	TAGTCCCAGC	TACTCGGGAG	GCTGAGGCAG
96661	GAGAAATGGC	TGAACGCGGG	AGGCGGAGCT	TGCAGTGAGC	CGAGATCGCG	CCACGGCACT
96721	CCAGCCTGGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAAAA	AAAAAAAATA	AAAAATTAATA
96781	AAATATGAAG	TTTTGAAGCA	GAAATTATTT	TGTCGTATGT	TCTTTTCAATA	ATTTTTTGCC
96841	TGCCTGCCTT	CTTCCTTTGT	TACAGAACTC	CAACACTTAC	CCAAAGGTAG	CTGTTGGGTC
96901	AGGGTTTCTG	TACTATAGTC	CCTTCTGTGG	TGGCCAGAAA	TATGTTACAG	GAAAGAGGTC
96961	CCCATCCAGA	CCCCAAGAGA	GGGTTCTTGG	ATCCCGCGCA	AGAAAGAGTT	CAGGGTGAGT
97021	CCGCACTGCA	AAGTAAATGC	AAGTTTACTA	AGAAAGTAAA	GTGGTGAAAC	GACAACTACT
97081	CCATAGACAG	AGCAGGACAT	TCCCGAAAGT	AAGAGGAGGA	AGGCATCCAC	CCTAGGTACA
97141	ATACTTGTAT	ATATGGGGAG	ATGTGCTCTG	CTACAAGTTT	GTGATAAAGG	ATTAATTTTC

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97201 TTAGTTACTA TATTTTGCAA GAATCAACAT TATTATCTTT AAACAAAATT AAGAATGCCT
97261 TTGTTCTCCA GATATAGGGA TATCTGGACA CTCCTAAGTC TGAGTCTGTT TAGTAAACAT
97321 TATTTATTTG TTCCCTTAAC CGTAAACATC TAGAAGCTAG GAATGACTGA CTTTCTGGGA
97381 ATGCAGCCCA GAAAGTCTCA GCCTCATTTT CCTAGCCCTC ACTCAAAATG GAGTTACTCT
97441 GGTTCAAGTA ACTCTGACAC TTTTCTTCTC TTTTTTCTT CTTTTTCTC TCCTTTATTT
97501 TTTATTTTTT ATTTTGA AAA TAAGAAATCA AGAATACTTG ATGTTTCATC TAAAACAATA
97561 CCCATAATTG ATAAGCCAAA ACAAACCT AGGTCTTCTA ACTCAAACT AGGATGTTTT
97621 GCTGTCTCTG CTGATACTCG GCTGATCGTT AATAGGTAAT TAACAAACAA GCCTTGCTAT
97681 GTCCCCCTCA GTTTATTACC ATTAGATCAT ATGCCTACTG TCAATCATAT TAATCCACAA
97741 CTATGCATTT CACAAAACCT GCCATAAAAA TTCACAGGTT TCCCGCTTCC CTCGAGTTTT
97801 CATTTCCGAA GGGTCCCATG TAATATAAAA CTTATATTAA ATACATTTGT ATGCTTTTCT
97861 CTTGCTAATC TTTTTTTTGT TTTTTTGAGA CTGAGCCTTG CTCTGTCACC CAGGCTGGAG
97921 TGCAATGGCG CGATCTCGGC TCACTGCAAC CTCCGCTTCC CAGGTTCAAG CGATTCTACT
97981 GCCTCGCCCT CCCGAGTAGC TGGGACCACA GATACGTGCC ACCATGCCCC GCTAATTTTT
98041 GTATTTTTAG TAGAGACAGG GTTTCACCGT GTTGCCAGG ATGTTCTCAA TCTCCTTACC
98101 TCGTGATCCG CCCGCCCTCGT CCTGCCAAG TGCTCGGATT ACAGACGTGA GCCATGCAC
98161 CCGACCAATC TGTCTTTTGT TAGAGGGGCC TCAAGCATGA ACTTACTGAT GGGTGAGAAA
98221 AACAGAATTT TCTTTTCCCC TACAATAA ACATTAATTG TAATGTTATC ATTCAGGACA
98281 TTTTGGTGAC CAATCTTACA GAAATTTTAT CTTGTGCAAG TCTATGCAA CCAATATGTA
98341 AATCTTCTAT AAGTGAGATT GTATTTCACT TTTCTAGTAT CTTTTTAAAT TAATAAAGA
98401 GATTTCTAATG ATTATTTTCA TTACTGCATT TCATTGTAGG GAAGTAGATA ATTGCCCTTT
98461 ATTCAGTGAC CTTGCTTTTT TAAAAATTTA AACCATGTTA CCATGAAAAT GCTTTTCAGT
98521 ATTTCTCTAC ACACAAGATT GCTGTAAGGG CAAAAATAGA GATAGGAATC ATGCATCCAT
98581 TGATATACAT ATTTTGATTT TTAATACATG TTACCAAGTT GCCTCCTGAA GGTCTGTTTA
98641 CACTCTCACC AACAGGGTGT TTTTCTCTGA CTTCCACAAA TGCTCTTGAA CAGTGGGTGT
98701 GTTAGTCTGT TCAAATTGCC GACATGAACA ATTAATCTC ATTGTTGTTT TTATTTTTAA
98761 GACAATTATT GTTTGAGACT GCACATTTTG ATAATAACAT TTCTTCTATT ATGGTTTGAT
98821 TACTCATGAT TCTTGCCCAT TTTCTTTTGG GATGTTGCCT TATGTACATT ATTTTAAATA
98881 GATAGCTCCA TGTATTAAAA GATTATTAAG TTTGAGGGCT TATGATATGT CAGTTACATT
98941 TCTAAGATTT TTTTTTTTTT TTTTTTGAGA CGGAGTTTCA CACTTGTTGC CCAGGCTGGA
99001 GTGCAATGGT GCGATCTCGG CTCACCGCAA CCTCCGCCTC CAGGGTTCAA GCAATCTCC
99061 TGCCTCAGCC TCCCAGTAA TTGGGACTAC TGGCAAGCGC CACCACGCCT GGCTAATTTT
99121 GTATTTTTAT TAGAGATGAG GTTCTCCAT GTTGGTCAGA CTGGTCTCGA ACTGCCGACC
99181 TCAGGTGATC CACCCGCCTC GGCCTCCCAA AGTGCTGGGA TTACAGGTAT GAGCCACTGG
99241 GCCCGGCCAC ATTTCTAAAT TCTTTATAAG TATAAATTC TCAATCTTC ACCAAAACCTC
99301 AATGAAGTGT GAGTACTATT ATTATCATTG TTTTACAGAT CAAAACAAGT AATACAGTCA
99361 CTTACTGAGT TCTATACACC TGGTAATTTT TTTGTTTCGT TGTTCTATCA ATTATTGGGG
99421 AAGGGGTGTT GAAATCTCTA CTTTTAAATC ATGTATGTGT CTATTCTCC TTTGGTTCT
99481 ATCAGGTTTT GCTACACATA TTTTGAGTT CTGTTATTTG GTGCATATAC ATTTAGAATT
99541 GCTTGTTTTT CGTATTGGAT TGACCCTGTT ATCATTATGT AATATCCCTG TCTGTTCTTA
99601 GTAATTTTCT TTGCTCTGAA ATATACTTAT CTGATATATC ATCCAAAAGA CCACCAGGAT
99661 GGCTAAAGAG TAGAAAGGAG AGATTTACTG GCAATACTAA TTTGCAAGCC AGGAAGAGAT
99721 GGTCCCAGAA CCTGCCAAA TTA CTCTCTC TTTGGGGAGA AGGAGCAGGT TGGTTATTTT
99781 TATGCCTCAT AGGCTATATA TTACACAATA GAGTCATACA TATTTAGCAC GTTTGGGGGG
99841 ACAGCTATAT ATATTATGAG GGGTGCCAAG TGCAATCACA ATGGATAAAC ACGTGTAATA
99901 TACCTCCCAT GTTCACTTCG AGGTAAAATT TTGGTTAAAA TGAGGTAGAA TTTAGGTCTT
99961 TACATCACAA GGTGAACAT AGGAACAAAG TTTACGTGCT GCCTCTAGCA GCTGGCTGAA
100021 AATGGCTTAA GGTCTACAAT TACGTGTAAG AATAGAATGT GTGTCAAGGC GGTCTCTGT
100081 CCAATCAGAG TTGTAGTGGA CTGGACTGTA AATCAGAGTT AGGAGGGCTT CTGATAGCTC
100141 CTATAGTTAA GGAATTTAGC AAGTGTGAGT TTTTGGTAG TCTTTGGAAT TTAGGAATTT
100201 GCCATGCCAG CCAAGCCATG AATGCTCTAC CAGTAGGTAA CTTTGTTTGC TTAATCTTAG
100261 AGTCTGTCTT AGTTGGTATA GGGGCATCTA TTTTGGTCTT TCAGATCCCA GATATTATTA
100321 ATACAGATAC TCTTGAGTT TTGGGCTGAT GTTTATATGG CTTATCTTTT TTGCAGCCTT
100381 TAATTTCAAC CTGCGTTATG TTTATATTTG AAGTGAGATT CTTGCAGACA GTGTACAGTT

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100441	GTGTTTTTTT	TTTTTTTTGA	GATGGAATTT	CACTCTTGTT	GTCCAGGCTG	GGGTGCAGTG
100501	GCACAGTCTC	AGCTCACTGC	AACCTCCGCC	TCCTGGGTTC	AAGGGATTCT	CCTGCCCTCAG
100561	CCTCTTGAGC	AGCTGGGATT	GCAGCCATGC	GCCACCACAC	CCGGCTAATT	TTTGATTTTT
100621	TAGTAGAGAC	AGGATTCACC	ATGTTGCCCA	GGCTGGTCTC	GAACTCCTGA	CCTCAAGTGA
100681	TCCGCCAGCC	TCGGCCTACC	AAAGTGCTGG	GATTACAGGT	GTGAGACCTC	GCGCCCAGCC
100741	AAACTGTTTT	TTTATGGGTG	TATTTATACC	ACACACATTT	AATGCAATTA	TTGATATCTT
100801	AGGGCTTAAG	TTCATGAAGG	GTAGTGTGGG	AACCATAGTC	TCTTGGCCCA	CTAAATGTTT
100861	GCCAGAAATC	ACTGACAAGG	CAGATTGATT	AATAGGTGAA	AAGGCATTTT	ACCTATTGTT
100921	TAACGTGTCT	ATGTGGGAGC	ATTGAGAATT	AATTACCTAA	CTTCCCAATG	AGTTATAGAT
100981	GCTTATATAC	CATTTTTAGA	TCACAGAAAG	AATTGGGGCT	TAGATTCTGG	TAAAACAGGT
101041	TATGGGAGGC	AAAAGAGGTT	TGGCTTGCAA	AGGTGGCCTT	GTTAGGTAGG	TGAAGCCTCC
101101	CTCAGAAAGA	ACAGATGGTA	AATGTTTCTT	TTATGATTTT	TAAGTGTGAT	ACTCTCAGATC
101161	TCTCTGGAT	CTGGGGAAG	GTATAGAAAG	GTGAGGAGGC	ATGGCTGCAT	TAATGGAGAT
101221	TCTCTACAGA	TGTAATAATT	TTCCCATTTA	AGGCAGCTTT	GCAAGCCCAT	TTCTGCCTGC
101281	TGGCCAAGCA	GCAGCCATTT	CAAAATATGT	CAAAGAAATA	TATTTTGGGG	TAAAATATTT
101341	TGATTTCTTT	TAGACTGGTG	GCCTTATAAG	AAAAGGAAGA	GACACCTGAG	CTGACACACA
101401	TACCCTTGCT	CTCTCAACAT	GTTATGATGC	AGTAAGAAGG	CCCTCACCAG	ATACTAATTC
101461	CATGCCCTTA	GCTTCCCAGG	TTCTAGAACA	GTAGGAAATA	AATTTCTTTT	CTTTAAAGT
101521	TAGCCAGTCT	GTGGTATTCT	GTTATAGTAT	CACAAAATGG	ACTAAGTAAC	TATATTATGA
101581	TCATCTTACA	TGACTGATCC	CTCTACATC	ATACACATAC	ACAGGCCACA	TTTGGAACAT
101641	TGTTAGAGGT	TCCTCTACCC	AGTACAAATG	TACTACAAAT	TATATATGTA	TTTTTAAATT
101701	TTTGAGTATC	TTCAATAGTA	TATTTTCGTT	AACTTTTGTA	GTCAAAATGT	CATTATAACA
101761	TGTATTCAAT	ATGCATAATT	ATTAGTCAGA	TGTTTTACAT	TCTTCTTCA	TACTAAGTGA
101821	TATGGTTTGG	ATATTTGTCC	CCTCTAAATC	TCATGTTGAA	ATGTAATCTC	CAATGTTGGA
101881	AGTGAAGCCT	GGTGAAAGGT	TTTGGATCG	TGAGGGTGAA	CCCCTCATGA	AGCGCACTCT
101941	TCAGGGTAAT	CAATGGGTTT	TCATTTGAG	TTTACAAGAG	ATCTGGTTCT	TTAAAAGAGT
102001	GTGACACCTC	CCCCATCTCT	CTCGCTCAGC	TCTCACCATA	TGATATGCCT	ACTCCCTCTT
102061	CACCTTCCAC	CATGATTGGA	AGTTTCCTGA	GGACTTGCCA	GTAGCAGATG	CTGCACCAC
102121	ACCTCCTGTA	CAGCCTGCAC	AACCGTGAGC	CAAAAAAAT	TACTTTTCTT	TATAAATTAG
102181	TCAGTTTCAG	GGATTCCCTT	ATAGTAATGC	AAGAACGAAC	TAACACACTA	AGTCTATTTT
102241	ATATTTACAG	AATAGCTCAA	TCTGAAGTAC	CCTTTTTCAC	CTTCACAGTA	GCTACTTGTA
102301	GCTAGTGGGC	ACTGATTTGG	AGCGTGTTCA	AGGGTGAATT	GTATTATGCA	ATTAACAGAT
102361	TTTTTTTATT	GTTTTTCGAA	ACCACGAGGC	ATAGATTGTC	TTACTTTCTC	TGCTCCTGGT
102421	GTTGGAGTTG	TTATTGGGAA	ACAACCTATT	TTCTCTTAT	ATTTATATGG	AATAAATAAC
102481	CCCCAATATT	TCCCTCCCCA	ATATCTGCCT	TTTGTATGTT	TTTGAAGGC	AAGTGCCTAG
102541	AATTTACTGT	TTTTGAAGCA	CTTACTGAAA	GGATTGCCAT	CAAGTTGTTT	TGCTAATAGT
102601	ACATGCCAGG	CGCTTGTTGG	TTTGCTTAAT	TCAAGGTAAC	TTGGATGAGA	AGAAGAGTTT
102661	TTCTCATCCA	TGGCTCAGTG	GAGTATAGAT	TACTGATATT	GTGACTGGAT	GTACTCCTGC
102721	TTTCTAGTCT	GAGTTTTTGA	AGCTACCCTT	AATCTTGTTT	TCAATTTTAT	CTAGCCCTGT
102781	ACATATCCAA	GGCTCTTTCC	AAAATGGTCT	ACGATTGTTT	TAGGAAGTTA	GAATAGCTGT
102841	ACTTTCTGAA	CCACGGTTCC	TGACATTTTC	TGGACTTCAA	ACACATCCAG	CATTTTATCG
102901	AAGTATTTAT	CCTTCCTACT	TGGCTGGCTT	CTTCCTTGCC	TTTCAAGTCTG	AATTCAAATG
102961	ACATTCTCCT	GATGAAACTT	TCCATCCTTA	TTTCTATTCT	TTTTCTTTAT	CCCCTTTCTT
103021	TATTTTTCTC	CACAGCACTC	CACACTTATC	TCTACATTTT	CATTATGTAT	TTACCTTATT
103081	GTGCACCTCC	CACTACAAGA	CAAGTAGCAC	CGTAAGGAAA	CAGGTTGTCT	GCTTTTTTAC
103141	TGCTATGCTC	CCTGCACCTA	GAACACTCTC	TGGCACTTAG	CAGGTTTTCA	GTAAATATAT
103201	GCTGAACTAA	TAATGCTGGA	TATACATCTC	CCTCATGAAC	TCTCTAAATC	CTTCTAATTT
103261	ACATTGATCA	ATCTTCTTTT	CCATGTGCTT	TTGTATGATT	TATTGCTCAA	AATCTTTATT
103321	TTGTATGCAG	AACGTGCACT	GCTATTTAAT	CTTCATGTAC	GTAAGTCTCT	CCTTCTCTGA
103381	GTATAATCTC	TTCAGGGCAC	TATCTGAGAT	AACTTTTTTAA	CATCTCCATC	ATGAATCTTG
103441	TACCTTTTCA	AAGAAAATGA	GCCAGTGATT	ACTGATGTTT	ACGGCTATTG	TTGAGGGTGA
103501	AGATCATTAT	AATTTTGAAA	AGGGAAGTTG	AATATTGTGA	AGGGAAAGAT	AACACTAGAG
103561	TCAGAAGACT	TGGGAGAAGG	CAAAAAACAA	ACTAAAAATG	AGCACTTTTA	GTCTCCTGAC
103621	AGTTTCTCTG	AATCAAATCC	ATAGTTCTGT	GACAGCGTTG	GCTTAGAAGC	AGATTTTTTT

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103681 TTTTTTTTTT TTGAAATGGA GTTTCGCTCT TGCCAGGCT GGAGTGCAGT GGCACGATCT
103741 CGGCTCACTG CAACCTCTGT CTCCAGGGTT CAAGCGATTG TCCTGCTTCA GCCTATGGAG
103801 TAGCTGGGAT TACAGGCTCC CACAACCACG CCCAGCTAAT TTTTGTATT TTTAGTGAAG
103861 ACTGGGGTTT CACCATGTTG GCCAGGCTGG TTACGAACTC CTGTTCTCAA GTGATCTGCC
103921 CGCCTTGGCC TCCCAAAGTG TTGGGATTAC AGGCATCAGC CACCGTGCCC AGCCAGGAGC
103981 AGATTTTTTT ACACCTCATGT TTCTTTTTCC TTCTGTCATC CTGTTTCAGT ATAAGCAGAC
104041 CACAGATAGA AGTAGTAGAT ACCTCAGAAA TTCCTGGAAT AATTAATCCA CGTTCATCTG
104101 TACTCCATCT GCTCCTATCT CATGGAATAT AAAAGGAAAA ACACCAAGAT TTCCCTAGGC
104161 AATCTGTCTT GATTTTAGGT TCCTCAACAG GAGAGCCAGA CAATGGCTGT AATAATATTG
104221 TCCCGGCCAA GGAAAAACTT CCCCTTGCC CTCCCAAGGT TTATGGAAAA TTAGTGCAA
104281 AACACAGATT AACTGGAGAA AAGGCATATA TATTTATTTC ATCACAATTT TACAGGAGAT
104341 TTTAGAA'TTA AGACTGAAAG ATACAGGGGA AATTGCCCAT TTTTATGCTT AGGTTCAACA
104401 AGATAAACAG CTGTATAGGG TACGATCTAA TGCTAACAGA CTGAGTGGGG AAGCCCCGCA
104461 AGGCTTGTCT GTCAAGATTG TTCTTGACCT CTTATGACCT ACAGGCAAAC AAGGTAGGTT
104521 AGGACAAGAC TCTCTTTTAG AATGGGGGGT CTTATGACCT ACAGGCAAAC AAGGTAGGTT
104581 AGAGTAATAT TTTTAGGTTT TATGGCTGGT TCTAGGGAAA AGGAGTTCTG GTTTGTATGG
104641 CCTACCTTGA GGAGGAATTC TGGTTTCTAT GGCTAGACTT TGGGGAGAAT GGGACTTACA
104701 GACAGGAAGG CAGAAGGTGG TCAGTGAAAC ACTTTTATAA TCATAATCCC ATTTTGTAGTA
104761 TTCTGTGTT ATGGAATGTT TGTTCTCTCA TTTCTGAAA GATTCCAGAG ACTCCTCAT
104821 CAGTGTGTG AAAAAGTTCA GGAAATGCAA CTCAAAAATG TGCCACTTTG TTACGCTGAT
104881 TTCTTTGAAC TGAGGGCACC TAGGAAACAG TAAATTCAAG GAAGGGCTTT CGCTGAACTC
104941 TAATCAAAAA TTTGAAAAAT AAAAAAAAT TCAAAAAGGA ATTTAGTTGT TAAGATTAC
105001 TTCCCTGGGG AATCTCATCA ACCAGAGAAG ATTAAGTGT TAACAGGAGA GGAGACTGGT
105061 GGTAAACACC ATCTAAACAG ACTTTGTCAC AGCTGTCACC TATTCTTTGA AACACCCATT
105121 TATTTTCTC CAAAATCATA TACTCTCCCC TAAGTTGCCT ACATCCCCCT TCTTTCTCCC
105181 TTATGAATCA AGAGAGCTTA TAAGCTTCTA CAGTTCAGT GGATTGGGG TATTGCTTT
105241 TCTTCCCCTC CACTCCCCCT CCCCTTTTTT TGTCTTTGAG ACACAGTCTT CTGGCTCTGT
105301 CGCCACGCT GGAGTGTGGT GGCTCTATGT GAACTCACTG CAACCTCCTC CTCTCGGGTT
105361 CAAGCGATCC TCCCACCTCA GCTTCTCGAG TAACTGGAAC TACAGGCGTG CACTACCAAG
105421 CCCGGCTTTT TTTTTTTCTT TTTCTCCCC GTTTCTTTTT TGGTTATTTT ACTGGAGACA
105481 GGGTTTCTCC ATGTTGTCCA CGCTGGTCTC GAACGCTGA CCCGCCGTCC TCGGCCTCCC
105541 AAAGTGCTGG TATTACGGGC ATGAGCCACT GCGCCGATT TGAAGGACCT CTTAAATATC
105601 TATTTAGAAA TTGGTCGGAG TCCACTCCTT TCCAAAACA TGAGTCACAA TCCGGGAAAA
105661 GCACGAGCG CTGAAAGTCA AAATAACCAG AACAAAACCT CCACTCATGC TTAAGAAAGG
105721 TATTTTGACA AAATCCTAAT TCGGCCAATT ATTATTAGTA TTCAAGTCGA AGGCTCGTCA
105781 AGCCAGACTG GGGATTGGGT CAAACATAAA CTTACACCA GACGGAAGGA TTACATGCAA
105841 ATGAAGGATG CAGATTCTGA TTTCCCATG GGTATTGAC ATTAGCCAAT GGGAGAATTC
105901 CTCACAGCCT ACCTCCAGTC AGTATAAATA CTTCTCTGCC TTGCGTTCTA ATGTAGTTTC
105961 ATTACATTTT CTTGTGGCGA TTTTCCCTT TTATCAGAAG TAGTTATGTC TGGTCGCGGC
106021 AAACAAGGCG GTAAAGCTCG CGCCAAGGCT AAGACTCGGT CTTCTCGTGC AGGTTTGCAG
106081 TTTCTGTGG GCCGAGTGCA CCGCTGCTC CGCAAAGGCA ACTACTCCGA GCGCGTCGGG
106141 GCTGGCGCGC CGGTGTATCT CGCGGCGGTG CTTGAGTACC TGACCGCCGA GATCCTGGAG
106201 CTGGCGGGCA ATGCGGCCCG CGACAACAAG AAGACCCGCA TCATCCGCG CCACCTGCAA
106261 TTGGCCATCC GCAATGACGA GGAGCTTAAT AAACCTTTTG GGCCTGTGAC CATCGCGCAG
106321 GGTGGCGTTT TGCCTAATAT TCAGGCGGTG CTGCTGCCTA AGAAAACCTGA GAGCCATCAT
106381 AAGGCCAAGG GAAAGTGAAG AGTTAACGCT TCATGCACTG CTGTTTTTCT GTCAGCAGAC
106441 AAAATCAGCC TAACAGCAA GGCTCTTTTC AGAGCCACCT ACGACTTCCA TTAATGAGC
106501 TGTTGTGCTT TGGATTATGC CGCCATAAA GATGTTTTTG AGGTGTTTTT AATGGCTTTG
106561 AGTGTGGCAC TTTTAGTAAT TTGTCCTGCA GAAATTAGAT CCATAGAAAC CTCAGGAATT
106621 CTAGGTATGT GGGAGAAGTG CCATGCAGCA CAAAACATGT TTACAGGGGT GATTGCGGTT
106681 AAGTTTCACA CACAGCAGTT ACTACATTTT AGAGGAAGGA AATTATACCC ATGAGTGCAT
106741 TCCTAACTAT CTTGAATGGA AGTGTTAAAA CCCGCATGCC CCACACAAGT TTGAATATGT
106801 CATACCATT GCTGTAGCAA TTAATGGCAT ACACAATTGA GAGCACACAC ATTACCACTG
106861 AACATTTGAG TATGTATTTT CCAAAATGAG CTTTTTTCCA GTTTGGGGAT GTTTTGCTTT

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106921	GTTTTGGGGT	GGAGTCTCCC	TCTCGCCCAA	GCTGGAGTGC	AGCGGCGTGA	TAACAGCTCA
106981	CTGTAACCTC	GAAGTCGGGC	TCAAGCGATC	CTCTTGACAG	CCTTCTGAGT	AGCTGGGATT
107041	ACAGGCGAGA	GCCGCCACGC	CCGGCTAAGA	GCATTTTTCT	AATTGCCAC	ACTTCTTATG
107101	CGACACCCAG	AAAAATACAA	TTTTAAATAA	AGCGCATATG	CAAATTTCCC	TAATCGTCTC
107161	CAATATTCTC	TGATTTCTTT	TTTATATTTT	AACTAGAAAC	AATTGGAGGT	TTCCGCGTTG
107221	CTTTGTGTGG	TTGTAAATTT	TAAGACTTCA	GGAAACTTTT	CCAGTACAAG	ACTTGTCCAC
107281	AGTGGATATA	GCAGCTAAGG	GGTTAACAAA	ATGACGTCAG	AGTAGCTACG	GTAATGGGCA
107341	GGAGCCTCTC	TTAATCTGCA	ACCAGGCACA	GAGATGGACC	AATCCAAGAA	GGGCGCGGGG
107401	ATTTTGAAT	TTTCTTGGGT	CCAATAGTTG	GTGGTCTGAC	TCTATAAAAG	AAGAGTAGCT
107461	CTTTCCTTTC	CTCCACAGAC	GTCTCTGCAG	GCAAGCTTTT	CTGTGGTTTT	GCCATGGCTC
107521	GTACTAAACA	GACAGCTCGG	AAATCCACCG	GCGGTAAAGC	GCCACGCAAG	CAGCTGGCTA
107581	CCAAGGCTGC	TCGCAAGAGC	GCGCGGCTTA	CCGGCGGCGT	GAAAAAGCCT	CACCGTTACC
107641	GCCCGGGCAC	TGTGGCTCTG	CGCGAGATCC	GCCGCTACCA	AAAGTCGACC	GAGTTGCTGA
107701	TTCGGAAGCT	GCCGTTCCAG	CGCCTGGTGC	GAGAAATCGC	CCAAGACTTC	AAGACCGATC
107761	TTCGCTTCCA	GAGCTCTGCG	GTGATGGCGC	TGCAGGAGGC	TTGTGAGGCC	TACTTGGTAG
107821	GGCTCTTTGA	GGACACAAAC	CTTTGCGCCA	TCCATGCTAA	GCGAGTGACT	ATTATGCCCA
107881	AAGACATCCA	GCTCGCTCGC	CGCATTTCGC	GAGAAAGAGC	GTAAATGTAA	AGTTACTTTT
107941	TCATCAGTCT	TAAAACCCAA	AGGCTCTTTF	CAGAGCCACC	CACTTATTCC	AACGAAAGTA
108001	GCTGTGATAA	TTTTTTGTTG	TCTTAACAGA	ACAAATTTCT	AAGGACCCCC	CCGGAAGCA
108061	TTAGACTATG	GTCTTAAAGT	TGATTAACAG	AAATAACGGT	TTGGTCAGTC	TTGCAGTGTA
108121	GGTTATTTCT	GACCTTATTA	AGGTGCTATT	TGGAGAGAAG	CTGTGTAAGT	CCACTATCAT
108181	TCAGGCTCT	AGCTTGCTAT	GATTAGCATT	TGTTTAAACA	ACTTTGTAAG	AGTAAGGGAA
108241	AAATCTGGTA	AGTAGTTAAC	TGGCGCTTAC	TAGGCATTTT	TGCAAAGCTT	TGAAAAGATT
108301	AGAAAATTGT	GTCTTGCGAG	TTCCAGTGTC	TTCTCAAAA	TGCTTAGGAA	GATTTTCTCA
108361	GCTCAATACA	TAGTCCCCTA	GGTTTTCTCA	TATATTATAT	ATATATATAT	ATATATATAT
108421	ATATATATAT	ATATACTGTT	AAATTCATTT	GGCTGTAAAC	ATTAACCTGA	AATTTATTCT
108481	GGTGCAAAAT	GTGAGGCAGG	GATCTAACTG	GCTCTCATTT	TATCCATAGC	TAGCTACCCA
108541	CTTTAAATCT	GTCAAGTCTGT	CGACCAAGCA	TAATTTAATC	CCTTATATAT	GAATTTTAT
108601	ATGTGTGGCT	TTGCTTGTA	ATAGTCTATC	TGGTTGCATT	GCTTTGTCTC	CTCTAGGACT
108661	ATGCACCATG	ACATGCCACA	TTCTTTTTTT	CAGTACTTCT	TGCCTGTAGT	TATTAAGATC
108721	TAGAAATTAC	AAGTTTTAAC	CATTTTCTTT	CTGTTGATCT	TGCTTTTCGG	TTTTGGAGGT
108781	TGGGGATTGA	GTAAGTGAAG	AAAATTTAGA	GGGATGGGAA	TACTGTACGC	AAACAAAAGT
108841	AATATTTACT	TTAAAATTTT	TATATTTTGT	ATTTTTTTAT	CATATAGCTT	TTACATCACA
108901	TTTTACAGAC	TAACTTTAGA	ACAACCACAG	AATGTCCAAC	ATTAAACTA	CTAATCCAA
108961	AGACCTTGCC	TCACATTCTT	TTTTACAATA	AATATTTTTT	ACACCTAACA	TTCTTTCTTG
109021	GCCTACATCT	AGAATGTAAA	CTGATGTACC	ATACTAAAT	CGCCTGACCA	ACTGTCAACA
109081	ACAACAAATC	ACACACACAA	AAGATCAAAAT	TTGAATTGCA	TCGTTTACTT	AAATTCATTT
109141	GTGTTCCAGC	TTTTAATAAG	GCAGTTTTTG	GTTTATAAAG	TAATATTTGC	ATTTTAAAAA
109201	TTATGAAAAT	GAATATGTCA	GTTTGTTTTA	TGATTCGTTT	TTCTTGACTC	TTATACAAGC
109261	GACTCTAACT	GGCATAGACA	TTTGTTATCC	ACAGACAGTA	TAGATATGTT	AGAGATGCCA
109321	ATGGACTTGG	TCTATGCCAA	GGTGACTACT	CACAAGCTCT	GGGCCAGCT	GAAGGTCAAG
109381	TATTTTTTTT	CCAGTTATAG	ATGTGCTGGA	TCTGATGTAT	AGCGCTTGAC	TTTTTATATT
109441	TTCTTTATCT	GTAGGAAACA	AATGTGTTGG	AGGTACTGGG	TCTGACGAAT	AGCATAAAAG
109501	AATAAAGTTA	CATTACTGTC	TGAGGATCAG	ATGGACAGGG	GGTGGTAGCT	CAGTCCAGCT
109561	ATTTTCCACT	CCCTCACTTA	CATTCTTTGC	CCCCTCCTCA	ACAGAACAAG	GATTCGTCTG
109621	TAACTCTTCA	TTGACAGTTG	ATATTTAAAA	ATTAACGAAT	GGATGAAATT	CTCATTTGTG
109681	AAAGAAAATT	TATTGAGCAT	TTTGTATTTG	TGAGTAGTGC	AAACATTTTA	ATATTATATT
109741	AAGAATCTAT	TGTTTTGTAT	TAGAGGAGTA	ATTAAGGAGA	GATTGGAGAC	AAAAAGGGGG
109801	TGTTGTTTGC	AGAATATACC	ATCCAAAAAT	AGACCACTGT	GGGATCAGGA	TTCTTTTGAG
109861	CTAAAGGCAC	TTCAAAAACA	GCATTCAAGA	AGGGAATTCT	TCTAACTTTT	TCTTTCTGAA
109921	AACAGGAGAT	AAAAGTTCCA	ATGTGAAAAA	TGCTCTGCTT	GTACCAGGTG	AAAAGACATA
109981	TTCTTCAGCC	CAGAGGCATA	GATGAGATAA	TTCTGCACAA	ACACAGCAGG	GAGTCATAGC
110041	CGAGAGACTT	CTATACACAA	ACAAACCTTG	TTAAAATAAT	CATATATTCC	TTTAATCTCC
110101	TCATATGGTT	TACTTTCCCA	CAATTGCCCTC	TCTTTAACTT	AATGTGAAAG	CATTTAGCTT

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110161 TTGCCATTTT TTTGGGGCTT CACTTTTTTTA TGAGGGTTCT CCTGTCCCAT AAAATTTACA
110221 TTAATACAT TTGTATGCTT TCATTCTGCT AATCTGTTTT ATGGCAAATG AATTATCAGG
110281 TCCAGCTGGA GACCCTAACA GAGTAGAGGT AAAATTTTGC CTCCCTACAA GATAGAGATT
110341 GTGTGCATTA AATGTTGTTT GTTCCAGTT GTTCAGTTTG TCAGGCCTCT GAGCCGAAGC
110401 TAAGCCATCA TATCCCCTGT GAACTGCACG TATGCCCTTA GATGGCCTGA AGTAACTGAA
110461 GAAACACAAA AGAAGTGAAA ATGCCCTGTT CCTGCCCTTAA CTGATGACAT TACCTTGTGA
110521 AATTCTTCTT CCTGGCTCAT CCTGACTCAA AAGCTCCCCC ACTGAGCACC TTGTGACCCC
110581 CACCCCTGCC AGCCAGAGAA CAACCCCTT TGACTGTAAT TTTCCACTAT CTACCCAAAT
110641 CTTATAAAAC GGACCCACCC CATCTCCCTT CGCTGACTCT TTTCCGACTC AGCCCGCTG
110701 CACCCAGGTA GAATAACAG CCTTGTGTGCT CACACAAACC CTGTTTGATG GTCTCTTCAC
110761 ACGGACGCGC CTGAAACAGT TTAACAGGGT TTTTCCTGCC CAGTCACAAC AAAGTGATGT
110821 TATGCTGCAG GCTGAAGTTT ACAGCTAATG CTGTTGAAGT CTAAGTTCAG TTTTGGTTTG
110881 TTAGATTTGG GTGAGATGGC TAAGATTCTC AGAGAAAGAA GTCAAGTTTG GGGTGCAATT
110941 TTCAGACTTA AAAATTTAGC AGTAGCCCTT GCAGTTTTTC CAATAGAAGT GATTTACGAA
111001 TGTTTTCAGG AAATTTAAAA CAACAGTGAG AAGCGTGTAT GGAGAGTTGA ACTTACACTC
111061 AGACTTGGCT ATAGGAAAGC ACGAATGCTG CTATTGTATT GCACCTTGGG AAAGAGAACA
111121 AAGGAATATT TTCGACAAT TTTAACATGT CACATATGAA AAGCTAAACG GAATCTGTCA
111181 ACACCTTGTA CGTTATTACA GGCTGTGATT TTAACAAAAAC AATCCTTACT AATACATACA
111241 TAGTTGCTGC TAGCAATATA GTGTTGGGAG TAAAAACACG AAAATGAGAG TTCAGGACAA
111301 TATCCCAACT CTGAGCAGAT TTTTAAAGT AGTAACATCT AAAATTAAC CATATTATGT
111361 AATATTTATT TCTTTTCCAC AGTCTCTTCT CATGCCTCGT TCACATTAGC TAATTAAGG
111421 TCCCTGAGT ATCATCATAA CCCGATTAC AGATGAAGGC ACGTTGCAA TGAGCTATCA
111481 CCCTCTTCTG AATGAGACAG TACAGTGTGA AGGATAGCAA AACTCCACTC CCATCCTCTT
111541 AGGGCTCTGG CTGGACCAGC AAATTAAAT AATGTAAAT GGATTAACAG GAGAAAGGTA
111601 TATGCATTTA TTTAACACAG GTTTTACGTG ACACAGGTGC TCTCATAAGG TAATGAAAGC
111661 CCAAAAAAAG CAGTTAGCTA CTTATATAAT GAATTGGACA ATTAGTAAAA TGTAAGAAATG
111721 CGCTAAAGCA AAGGGATTTA GGCTAGAATA TATAACTGTG TAGAGAAAGC CCGACCAAGG
111781 GCTAGTGCAA GGTGTGTACA GAATCTCTT TTTTCATATGA GAATTTTACC TACTGCTTCT
111841 TTGCTTTTTT TAACTACAG AGAAGACATC TTTTCATATGA GAATTTTACC TACTGCTTCT
111901 AAGAAACAGG TCAGCTTTCA AGAAAAATA AGGCCAGAGT GATCTTTTCA CGCCTGCTCT
111961 TTTAAGTACC TTGAATAGT CAATATGTCT TCAAGCACTT GAAAGACTTA AAAAGTTTAC
112021 CACTCCGGCA TATTAGTGAA AGCCCTTAAT ATAAGCCCTT ATTAAGTTTTC TCAGTCGAGG
112081 GTATAAATTC AGATTCAAAT AGTAGTGTG TAAACGGGAG GGAAAACTA AAGGGATTAA
112141 AAAGTGAAAC TATTGTGTTT TCCCTCGCAG TCCTTAGGTC ACTGCCCCCTC GAGGGGCGGA
112201 GCAAAAAGTG AGGCAGCAAC GCCTCCTTAT CCTCGCTCCC GCTTTTCACT CTCAATAAGG
112261 TCCGATGTTT GTGTATAAAT GCTCGTGGCT TGCTTTCTTT TCGCGTACCT GGTTTTGTG
112321 GTCAGCTGGT TAGACATGTC TGGTCGCGG AAAGGCGGTA AAGGTTTGGG TAAGGGAGGT
112381 GCTAAGCGTC ACCGAAAAGT GCTGCGGGAT AACATCCAAG GCATCACCA ACCGGCCATT
112441 CGGCGCCTTG CTAGGCGTGG TGGGGTTAAG CGAATTTCCG GTTTGATTTA TGAGGAGACT
112501 CGTGGCGTTC TCAAGGTGTT TCTGGAGAAC GTGATCCGGG ACGCCGTGAC CTACACGGAG
112561 CACGCCAAGC GCAAGACTGT CACTGCCATG GATGTGGTTT ACGCGCTCAA GCGTCAAGGA
112621 CGCACTCTGT ACGGCTTCGG CGGTTAATCT TTTTCGTGCT TTTCTTCCAA TGGCCCTTTT
112681 TAGGGCCGCC CACTCCCTCT CAGAAAGAGC TGTGATTGTA TTCTTTCCGA TGGTAACATC
112741 TCAATGGCTT TACTCGGCTA TTCTGCCTAG TATGTAGAAC TATTATAAAC CAGTTGGGAG
112801 AGACCAGGTT GTTTGGTCTG AGTGGCTGCT AAAGCAGAAA TCAGCTAAGT AAACGAGGTC
112861 TCCGAGATAA GTGAGCTATA AACTTCAATG CTATAGTTTT GACATGTCAA GCAACTTAAC
112921 GTGCAGCGCG AGTCCGATAA ATGAGTAGCT CAGCTTTTTA GTTTTAAAAA CGAGTTGTGC
112981 GTTATTTGTA CGAGAGCCTA AGATGCTAGC TGCCTGGAAC TGAGTAGGTG GATTAAATG
113041 GGTGTCAGGT CTGTTTTCCC AGGCGTATCT GACTTAACGT CAGCAAAAGC TGTACTTTTA
113101 GCTTCCCTGG TAACACCTGC CGTCTTAAC CGCCCCCTGC CGGTAGCGCC AGAAGCCTTT
113161 ACTTCCATTT CTAGTTGAGC TTGGCGTCTT GCTGAGTGAC GTCACCTCCC CCTTCTGTGG
113221 AGTAGGACTG GCGGTTAAAG CTGCTTGTCT ATTTTCAGTC CTCAGGCTGG AGGCTCCCCT
113281 AAGCAGGCTG CCTACGCAGT TCGTAAATTC CCACTTAGTA GACTAAGGGA GTCTGTTTTA
113341 TAAATAAGGA CTCAAATTTT TTCTGACTCC GAGGTCCGTG GCAGCAGCTA TAAGATGGAA

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113401  GCCCCCTCTG ATGTAAGATT CTCAGATGAC TTGCATCTTC ACTGTACCTG TCAACCCAAT
113461  AGTCTTCTAT TCCTGCCTTA AATTGTAAAT TCCAAAACCTG ATTTAATTGT GAAAGTTTCA
113521  AACTGTACGA CCTAGGAAGT GTCAAAGTTA GGTGACCAGA TTTT TAGAAG TCAGCCAAAT
113581  ATTCAGCATC TTTGATTTAG TAACAAATAT ATTGATGGCT ACTTCAGCAA AAAAAATCAA
113641  CTTTGTTCCT TGGTTACTTT GCTAACAGC TTCTCCTGAC AGGAGGATAT AGTGAATAGG
113701  CAGTTGAATA AGTGAGTTCG GGTGAGAGGT CTGAGCTGGA GATAAAATG TGTGAGTCAT
113761  CAGCAGATAA ATAAATGCTG AGACCAGATG AGATGGCTAA AAAGTGAAC ATAATGTAGT
113821  GCAGCATGTG TTGTAATAGT AAATGAGTGG CAAGTGTAA GTTTTTCATCA GAAAGGACTA
113881  GAGTGATCTA TACATCCATA AAATAGAGTA TTTCTCTACA CAGCCCTACT AAAGAATGAG
113941  AAAGCTGTAC TCCACTACAT ACTCTGGTGT ACTCTGGCTC AGTTCCTGGA CTCCTCTTTT
114001  CTTGGCTAAC TCAACTGGCC TCACCACCTA CATGCTCTGT GCTCTGTCAA ATAGTTTGTT
114061  CAACAGAACA CCACGGCCTA GCTGTAGGTG CCACGTTAAC TTCTAGCAAT GCCAAAGCCT
114121  GTGATAGTGG CAGCTTCGGG CTGTTTCTCA TTCCCGGGAT GCCTAACAC CTCTCCAAAT
114181  TCTATCAGTT TGCTTCCACC CACTTCAAGC TTCAGAACGA AACATAGAGC TTAAGAAATA
114241  TAGGCCCGGC AAGGTGGCTC ACGCCTGTAA TCCCGGCACT TTGGAAAGCT GAGCCTGGTG
114301  GATCACCTGG GGTGAGGGT TCGAGACCAG CCTGGCCAAT ATTGTGAAAC CCCGTCTCTA
114361  CTAACAAAAA AAAAAATTA GCTGGGCATG GTTGGGGCG ACTGTAATCC AAGCTACTCG
114421  GGAGGCTGAG ACAGGAGAAT AGCTTGAAGT CGGGAGGCAG AAGTTGCAGT GAGTTGAGAT
114481  CGCGCTATTA CACTTAGGCC TGGGAGACAA GAGTGAAACT GTGTCTCTAA ATAAGTGTTC
114541  GCAATTATAA ACCATCTCCC TGACCTTAAA TCTCTAGACT CATATACAAC TGCATATTTG
114601  ATGTATCTAA TTGAATAATG GGCATCTCGA ACTTGTCCAA AATATGTTTA TACGTAAACA
114661  CCAAGTCTGT TCTTCTCTG ATATTTGTCA TGTCAATCAA TAGAACTCCA TTCTTCAAGC
114721  AGCTTGGGCC AGGAATTGTG CAATATTGTT TGTCTGAGC TTCTTACAAC TTTCACCCAA
114781  TGCAGTCAGC TCTGTTGAAA ATCAATCAGA ATACCTTTCA TTGTTTTCTT TGCTGCTTCT
114841  TAGTGACCAA GCTGCCATGG CGGTTTGTCT GAATGACCAC AGTGACCCCA AACTGGTCTT
114901  TGTTTTCACT TTTAATCCCC CTGTCTACA GTTTTTCTCT ATCCAGCATC AACAGTGATC
114961  CTTTTTGAAG GTATTATGTC CACTGTCTGC TGAAAAGATT CCACTGGCTT TCCATACCTT
115021  TCATAATAAA AACCAGCATC CTTATCATAG CCTACAAGTA AGATGACCAA CCATTACAGT
115081  TTGCCTGACT CTCAGGGGTT TCTCAGGGTG TAAGACTTAC AGTGCTGAAA CTTAGAAAAGT
115141  TCCAAGCAAA CTAGGATGAG CTGCTCAACC TACTAGATCT GTACTCTGGC TACCCTCTGA
115201  CCTCATTCTC TTCGCAGTTC TTTCTCTTCA CTGACCTTGC TGTCTCTGGA ATGGACCAAG
115261  CATTTCCAGC ATCAGCACCT TTATATCTAT TCTTTCTCCC TAGAAGGGTC TTGTCTGGA
115321  TATCTGAATG GCTCTAGATC TCATTTTATT CAAGCCTCTC CTCAAATACC AACCTTAAGA
115381  AAGAGACCTC CCATAATCAT CCCTTGTAAT ATAAGCTTTT CTGCTCATTT AGCATATATA
115441  TATATAGTTG ACTATCCTCA ATAGCATATA TATATAACAT TTCCCACCT AGAATTATAT
115501  ATGTAATAAT ATATTTAACA AAAAAATACAT ATAAGTAGAT ATATTTTATT TTGTGTTTGT
115561  TCTCTCTCCC CCAACTGGAA TATATTTTTT GAAGGTAGGG ACTTTGTTTT GTCCAGAAG
115621  TATCCCTAGC ACCTTGAACA GGGCTGACGT TTAACAGGTA GTTTATGGAG GTTTGTTGAA
115681  TGAAAGGATG TGTGAATTTT CTATGTAAGT CTCCAGGCTC TCCACTAAGC CCACCAGAAT
115741  GCTAACACAA TCAATCCCCC ATCTCATTC TTAGCCTGCC ACTGCCTGAA GCAATCAGCG
115801  TGCAGTTTCT CTTTAGAAAA TCTGGGGGAT AGTCTAGGGG TTGCAAATTA AGCAACATTA
115861  TCTTTGTTCT GAACAAGGAC TGATGAGTGA TTAGGACTGA AGAAGGCCCA AGGTGGTGGT
115921  GGGTATGCCT AAGATGAGTA TGACATATCA GCAATGCTAT GAACATAGCA ATGCTATGAA
115981  AGGCCAGGCA AAACGTAACA GGAGCTAGTC GTGGCTTATT GTTACAACGA CTATACTCC
116041  CATATGGGTA ATCGATATCC ACACACCCCT CTACATTGAC TCTGGAATTC AGGAAAGGGA
116101  ATTAATAATT TCTAATTAT GTACCCCAAT GATTTCAACA ATATCTGGCA TATGAGATCA
116161  ATAAATATCT TTAATAATACC AACTAAGAAA GACATAAAAT GACCCACCT CCATACCAGG
116221  CTCATTTTTG CTCCTCTGAT TCCTGAAACT ATCCAGAATG CAGCTATGAA TTCTCTCCAT
116281  TGTCAGTTTT AAATTAAGCC AAGCTGGGTA CTTGTGTAAT TCCTCAAGAA ATCCTGGATG
116341  AAAACTGTCA GGTGGAAAAC AGGACCTCAA AATAAAGAGA CATCCATCAC TGAAGCTAAC
116401  ATCGTGAGGC TGAAATCAGT CCTATAACAA TGGTACCAA AAGAGCACAA TGAGAGGCAT
116461  TTGTGAATAT TTAATCAGAT GAGAGTAAGA TATTTCCCTA TCAGCTAACC TGAAGTTCAC
116521  ATCCCTTTTC CAGCTGAGTT CTGAAGCTAG ATGTACTTAA CTGGAACACA TAACTGCATC
116581  AGGAACATCC TTTAAACTA TGGCTACAAT GGCTTGACTG GACAAACCCC AGGCTTCCAG

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116641  GTTTAGCACA GGTGGCCCTT CACAGACCAA CATTGCCTAT GCTACCAACC TCATGTCCTA
116701  CCACCCTGCT TGCATCATTT CTCTCTCTGC ATATATAAAA ATATATGTGT ATGTATATAA
116761  TCAGCTTTAT TGATATTTAA TATACCACAA AATTTGCCCA CTTTAGGTAC AGTTCAATGA
116821  ATTTTACCGT GTTTTCTTAG TTGTACAACC ATCATCACAA TTTAATTTCTG GAATATTTCT
116881  ATCACCACAA TTTCCATTTT TCGTAAAGG GGGAAAAAAA AAGGTTAACT GCTGAAGGCC
116941  GCGGTAACAC TGAAAAAGGT GCCTTTTCTC TCTAAAAACAG ATTTTAATCT CCCCTGAATT
117001  TAGTGTCCCTG GGTATTCCAG GAGTCTGAAT AGGGTTTCAA TTTTCAGGGT CTTTTTAATA
117061  GAGTAAAACT GTATTGGTGG CGATAAAATT AGTATTGCTC TCAGTACATG ATTGAGGGAT
117121  ACTTAAATGT CTCTGTGATT TTATTTTCATA ATCGCTAAAA GATGGTTTTT TTTTTTCCTA
117181  AAACAGGGTT TTTGTTTTTT CTCAATAAGC TTCTTAGCTT CCCCTCCGGC TCCCTGGCTT
117241  GCCTCAGGAA ATATTAGCTC ATCAGTTCTG ATTGGTTGAC AGCTACGAAT GGCCCTCATT
117301  GATTGGGCAG CGCTTCTTTG TCCCTTGGAA ACTAATACAA ATTTTAAACA CTACTTTTTT
117361  TCCACTCTTT CTTCAGAGTT GGAATATCTG TGCTCCCCTA CCCATATGTA GTGAGTGGAG
117421  GGCAAACTTG GAGTTCCTCT AATCTTTCCT TTTTAGGATG TCAGTCTAGT ATCATTGCATC
117481  TTAATTACAC ATTGAGCTTC TTGACTTAAAT GGATACAGCT CTTCTTTTGT TTAGTTGGGC
117541  GGCCCTGAAA AGGGCCTTTG GTTCAGAAAT GCAAGCTGTG GAGAAATCAG CAACCTTAAC
117601  CGCCAAAGCC ATAAAGGGTG CGTCCCTGGC GCTTAAGCGC GTAGACCACG TCCATGGCAG
117661  TGACTGTCTT GCGCTTGGCG TGCTCCGTAT AGGTGACAGC GTCACGGATC ACGTTCTCCA
117721  AAAACACCTT GAGCACCCCG CGAGTCTCCT CGTAGATCAG ACCAGAGATC CGCTTCACAC
117781  CGCCACGCGG GGCCAGACGC CGGATGGCCG GCTTGGTGAT GCCCTGGATG TTGTCACGCA
117841  ACACCTTGCG GTGGCGCTTG GCACCCCTCT TACCCAAACC CTTCCCGCCC TTACCACGTC
117901  CAGACATGAC TTCCCAAGAA GTGAACCAAG AGCAAGTGAG AGAATAGGAA ACCGATCTTT
117961  ATATATCTAC GTTACCCCTG CCCCCACCTC CAGCGGACAC AGAGACTGAA AAGCGCGCAG
118021  GCGGGAATG TGACGCCTAC AGTCCGCTCC TTTAACCCCT CCTCCAAGCC CCAGGAAATG
118081  GCGGGAGCAG CGATTGGGGG AGGGTGGGGA GATGAGGGTG GGACCAAGCA GGCTTGACCA
118141  ATGGCCTTTA TTTTCTTAAC AGAGCTACAG GCTTTGAGGA ACTGGGTTAA GAATTAATG
118201  TAAACCCATT CTGACTCCAG AATTATTTTA AGTCGAACTT TTTTTTAAAC CGAATCTCTC
118261  TGTGCGCCAG ACTGGAGTAC ATTAGAGCCA TCTCGATTCA CTGAAACCTC TGCCCTCGAG
118321  GTTCAAGTGT TTCTCCTGCC TCAGCCTTCA GAGTGTACCT GGGATTACAA GCGCTCGCCG
118381  TCGCGCCCGG CGTGTPTTTG TATTTTTCTG AGAGACGGGA TTCGGCCATG TTGGCCAGGC
118441  TGATCCCGAA CTCCTGATTT CTGGTAATCC GCCCGCCTCA GCCTCTTAAA GTGCTTGAAT
118501  TACAGGCGTG AGTCACCGCG ACCGGCCGAA ATCGATTGGT TTTGAAGCCT TCAGTAGCAT
118561  TAAACGAAA AGTGCTCCCA ATGCATTCCC TTTTGTCTTA AATTGGTTTC TTACAGCTAC
118621  TTTACTTGAA AAGGTGGTGG CTCTGAAAAG AGCCTTTGCT TGGACCGTCA GAGAGACCAC
118681  AGTAATCACG CCCTCTCTCC GCGGATGCGG CGGGCGAGCT GGATGTCCTT GGGCATGATA
118741  GTGACGCGCT TGGCGTGGAT GCGGCACAGG TTAGTGTCTT CAAATAGCCC TACCAAGTAG
118801  GCCTCGCACG CCTCCTGCAG AGCCATCACA GCGGAGCTCT GGAAACGCAG GTCTGTTTAA
118861  AAGTCTGCG CAATCTCGCG CACCAGGCGC TGGAAGGTA GTTTACGAAT AAGCAGTTCA
118921  GTGGACTTCT GATAACGGCG GATCTCGCGC AGAGCCACGG TGCCCGGCCG GTAGCGGTGG
118981  GGCTTTTTTCA CGCCGCCGGT GGCCGGAGCG CTTTTCGGGG CTGCCTTAGT GGCCAACTGT
119041  TTGCGTGGCG CCTTGCCACC AGTAGACTTC CGAGCAGTTT GCTTAGTGCG AGCCATGACG
119101  GAAAAACAGC ACAGCGGAAC ACCCAACACT AGCGCAAATA CGCCCATGAG CTGCTCTATT
119161  TATAGTGTGT AAAGTGCACT GATTGGATGA TAGAAGACGC TAAATATGAC GTTACACACT
119221  CTGATTGGTC TATCTTTAAG CCAGCAACAA TCGTGCAGTT TCACCGGCTA CTATATTCTA
119281  TTCCACTCT ACAGATGATT ATTTAAGTGG TATTTTATTA CTACTATTAT TTTATTTTAC
119341  TTTTGCTTTG TTCCCAAGC TGGTCTTAAA CTTGGGCTCA AAAGATCTTC CCGCCTCAGC
119401  ATCCAGAGTA GCTGGGATTA CAGGGGAGCC CCACTGCGCC GGCTTGGACT TTAATTTTTT
119461  AAACCTGTCC TCTTCTACAT CTGGTTTTCA TAACCTGAAG GCTGTGTTTA TTTTCCATAA
119521  AACAAGGCAT TGATTCCAAA GGTATTATAA TTCCCAATT CCGTATAACC TTCAGCTCTT
119581  TAGGAAAAAA AAAAAAGAGG GAATACTGCT CACCTCCTCT CCGGAAATGT
119641  ACCCTTTACG GGAATTTCTG AAACCTTTCA CAAGAATTGG ATTCCTTTGT AATGCTTTAA
119701  TTGACTTAGG AGTGTTATTG AAATCTACAA AGCATCTCAA ACATAGTAGG ATTACACTAT
119761  TACTCAGAAA CATTTTCTAT GAGACGTCTT TCTCTTGATT ATGCTCTTTG AATCCTAAAC
119821  TTGCAGCGTT CTGCAGCTTT TGTTTTCTAA AGCCTAGGTG TACTCTGCCA GTCACAAAA

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119881	GGCGTTTCTC	CAGCACTGCC	GCCAGGTACC	ACCAGCTGGG	AGTTGTTTCT	CTTGCGGAGC
119941	AGGAGGTGGA	CTTGCCCCAA	GAGAACTGG	ATAGTGGTTC	GCAAGGAACA	TAATTTAGCA
120001	TTGCCAAGAG	CTAATGCAAT	CATTTTGAAA	ATCTCAAAAC	ACTGAAAAGT	GGATTGTGAC
120061	CTTTTAAAT	TCACAAGAGA	CAGGCCACAT	TCTATCTTTT	GATTGGTTTA	GGCTATTTTC
120121	TTGAACAGCC	ATTTAGAAAG	CAGATCTATC	ATCCTTCATT	TGCATGGAGC	GTTCCCATTT
120181	TATTTGAAAC	CAGTTTAACC	CAATAGAAAA	AAGGGAGGCA	GAACCCATTA	TTTAAAGTGG
120241	AAACTCCTGA	ATCAGATAAT	TAGGAGTATT	TCCTTTTCAA	AAGTTGCGTT	TTTTTCAGATA
120301	CCTCGCTTAT	TACACTAAGA	AAGGTTTATA	TCTTTCACAA	AGGGTTTACT	TACAAAAATC
120361	TTCCAATTTT	GTATACCTGT	GTTTCATAAC	TGACTAGCCG	TCAAACCAAG	ATGTAGAGTT
120421	TCCAACCGTT	ATTTTCCAAA	TTTTTAGAAA	TTACGTGAAA	TATTTGAATG	CATGCCTTCT
120481	CAATAAAATG	GGACGTAGGA	AGCACTGGTG	CAGAAGATGG	GTACAATACT	TATCTGGGAC
120541	CACTCCATTA	TTTGGTTGGC	ACGTTGTTTG	AAGAAAAAGG	GGAAAAGCTC	AGGTTACTTA
120601	GCATGGTTCG	GACTTATTTG	AAAAC TACCA	CAGCAGGAGC	GGAAATAAGA	CCGCATTACC
120661	TCACTCTCTG	CTGTGCTGTG	CTAGGGGGTT	ATCCAGAATA	GGATTGTAGA	AGTGGATGTC
120721	GATTTAATAG	TTTTTTATTC	TCCCATTAGC	TGAGTCTCTG	ATTGGCAATG	TGAGATCGTT
120781	TTAGCTTATT	GATACTTTGA	AATGCAC TTA	ACAGCCACAA	ACAAGTTAAA	GGGTTGTTAC
120841	CATAAAATCT	TATCCCCAGG	GTGTGCTTGC	ATTTATCACC	CGTGT TTGCT	TTACACATAA
120901	GTGGACTTAA	CTCCCCAGCA	GAATGCCTGT	CAGGGAACCG	GTTTCGTGGA	CCCAGCATTT
120961	AACGCCTTTC	GCAGGCTTGT	GAGGCCATA	AATATTTGTT	GAATAAAAGA	ATGAGTTGAC
121021	CATGTCATGG	TGCGCTGATT	GCGTGTGCTG	ACATGGAACA	CAGGTTGTAA	ACCTTAATAC
121081	CAATTTGGGG	CATGTTGTAT	GGATGAAAAG	GGCATTGGAA	ATTCTTGAAG	TGCATCCAC
121141	ATTGGACTGT	GGAAATAAGT	TGCAAGTGCA	GAAACGTTTC	CACACTTGCA	GTTTGAGTAT
121201	TAATTGCAGC	GTTTGTGAAT	TCTGGTGTG	TCTACGATTC	ATTCTTGT TT	GACGTGAAAG
121261	GTATTCGCGA	GACACATCGC	TCTAAAACAT	TGCCAGAAAA	TGTAATAGAG	TTGATGACAA
121321	CTGGCCCTAA	CACGGCCTAA	AACTCGCACT	TTTCTCTCCC	TCCGCAACTA	TTCAAAACAC
121381	TGTATTTTAC	ATTTCTTGCA	AATTAAAAAC	TAACATCTCT	GGCAACGGAC	CTCTAAAAAT
121441	TTCTAATAAA	ACTCCTCGGA	TGCTTGTGGC	ACTGCATT TG	TAAACCGCCC	CCTCTCAACC
121501	TACTCCCTAA	AAAAGAGCTG	CTTTTGTAGA	GAGAAGCGGT	ACCCTCTGAT	GTTACTGGGC
121561	GGCAGTCTGC	CTACAATTTT	CTTCAATATG	AGGCAACCAG	AGCGGCTTTT	TCTGTGTGTT
121621	TGCTTGCGTT	GAGGGGAGCA	GGACCATAGG	CCCTAGAGGC	CCCCAGCTGC	CTTCTGAGAC
121681	TGGGCGAAAC	CCTCGGCAGC	GCGCAGGGGG	CGCTAGGGCG	CGAGGGGCGG	CGACTGACGG
121741	GCACCAATCA	CGGCGCAGTC	CCACCCTATA	AATAGGCTGC	GTTGGGGCCT	TTTTTTGCA
121801	TCCTGCTTCG	TCAGGTTTAT	ACCAC TTTAT	TTGGTGTGCT	GTGTTAGTCA	CCATGTCTGA
121861	AACAGTGCTT	CCCGCCCCCG	CCGCTTCTGC	TGCTCCTGAG	AAACCTTTAG	CTGGCAAGAA
121921	GGCAAAGAAA	CCTGCTAAGG	CTGCAGCAGC	CTCCAAGAAA	AAACCCGCTG	GCCCTTCCGT
121981	GTCAGAGCTG	ATCGTGCAGG	CTGCTTCCTC	CTCTAAGGAG	CGTGGTGGTG	TGTCGTTGGC
122041	AGCTCTTAAA	AAGGCGCTGG	CGGCCG CAGG	CTACGACGTG	GAGAAGAACA	ACAGCCGCAT
122101	TAAGCTGGGC	ATTAAGAGCC	TGGTAAGCAA	GGGAACGTTG	GTGCAGACAA	AGGGTACCGG
122161	AGCCTCGGGT	TCCTTCAAGC	TCAACAAGAA	GGCGTCCTCC	GTGGA AACCA	AGCCCGCGCG
122221	CTCAAAGGTG	GCTACAAAAA	CTAAGGCAAC	GGGTGCATCT	AAAAAGCTCA	AAAAGGCCAC
122281	GGGGGCTAGC	AAAAAGAGCG	TCAAGACTCC	GAAAAAGGCT	AAAAAGCCTG	CGGCAACAAG
122341	GAAATCCTCC	AAGAATCCAA	AAAAACCCAA	AACTGTAAAG	CCCAAGAAAG	TAGCTAAAAAG
122401	CCCTGCTAAA	GCTAAGGCTG	TAAAACCCAA	GGCGGCCAAG	GCTAGGGTGA	CGAAGCCAAA
122461	GACTGCCAAA	CCCAAGAAAG	CGGCACCCAA	GAAAAAGTAA	ATTAGTTTAG	AAGTTTCTTC
122521	TAGTAACCCA	ACGGCTCTTT	TAAGAGCCAC	CTACGCATTT	CAGGAAAAGA	GCTGTAGTAC
122581	ACAGATGAAA	TCCCCCAAGC	AAATGCAACA	CGCCCTCAAT	TATATTAGAA	TCACTTGGAG
122641	AGTCGATAGA	ACTTTAACAT	AGCCTCATCT	AGTAAGAATT	TACTACTCAA	TCTATCAAAG
122701	ATAGCAAGGT	GAATTCAAAT	GCACCGAGTT	AAAATCGAGT	TTTAAAGTCA	CCTGGGTTTC
122761	GGTAGCCGGA	AGTCCCGCGT	CTCAGCACTC	CAAGCTAATT	AGTCATAACC	GTATTGAACC
122821	AAGGTTGAAG	CCCAGTCCCA	GGCTTGAGGC	TTTTTATTAT	ACAAGGTTAA	AGTGGGGATA
122881	TTGCGTTTTG	GGGTCAATAT	TGCTAAAGTA	GCATTTTCCG	AAATTGGGTG	GTCCTAAGAA
122941	ATGCTTCTGG	GATAGTTGGC	AAAATATATG	GCTTAACCAC	GCCCTCTCCA	CAGGAGTGGC
123001	TAGCGAGCTG	TCTGTCCTTG	GGAAGGACGG	TGACCCTGCT	GGCGTGGCTG	GCGCCACGTC
123061	TGGCGTCCTC	TGAAAGCCCC	GCCAGGTAGG	CCTAGCTCGC	TTGCTTTCTG	CAGCGCCATC

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123121 ATGACAAAGC TTTGAAACGC AAAATGCTTT CTTTGTGCAG CGCCTTACCA TGGGTGCACT
123181 TACGGGCTGT CGACTTGGTT TAGGCCCTTG TCAGGACAAA GGAGCTTAGT TTGTTGGAGT
123241 TTTAGAGCTG CAACCCAAAA TCCCTTGCTC GGTTTCTCTG TTTTATAGAA CGGAAGCGCC
123301 CTGATTGGAT ATTTGAAAAT TACTGTGCTT AACTGGATCG TGTTTCATCA ATCGTGCAGG
123361 ATTTTCAACC CTGGTGGAGC CCACACATTC AAAACTGAAG ATCCTTTTCT CAGAACTGCC
123421 CCTTTAAGCT TTTGCAATTT TAATTCTGGG GGTCAGATTT TAATAATTGG ACTTTTTTGT
123481 TTACATCTGA CAAGAGTATA TGATGAGCCA AGTTTACTCA CTTTACTTTA GTGCAGTTCA
123541 ATTCTAAAAG TTTATTTTTG CGTGTGTGCA TATGAGTTAA TAATCAGTTG TATTTTTCAA
123601 ACGGTCITTT TTCAATTGTT TTGCTTAGCT CCTTCCATCG TCTAAAGTCA GGGATACAGG
123661 CACATCACAT CCCTGTTCCC CCTTCTCAA ACTAATATGT AGCTACCTAG GTTTATCCTT
123721 TAAACAAAA ATTCTCACCT ATTTTGTGTA GAAATATACA TGTTTTTCTT TGAACAAAGT
123781 ATTTTACATA CACCTATCTA TATACATGCA TACTTGTGGT TTTGTTTTTT TAAAAAATAA
123841 AAAAAAATA CACGTTATCT TTTGAGACTG GGTCTCAGTC TGTTGCCAG ACTGGACTGC
123901 AGTGGCATAA TCACAGCACA CTGTAACCTC CAACTCCTGG GCTCAGGCTA TCCTGCAGCC
123961 TCAGCATCCG GAGTAGCTGG GATTGCATGC ACGCACCACC AAGCCGGGCT TTTTGTTTTT
124021 ATTTTTTGTG GAGACAGTCA CACCATGTTG TCCAAGCTGG TCTAGAAATG GCCTCAAGTG
124081 ATCATCGACC TCCCAAAGTG TTGGGATTAC GGTCAGTGTG CCTGGCCTTG TATGCATAAT
124141 TGTTTTGTCT TTTGATTAGG GTTATTAATT TAAAAACAA AGCCTGGACG CAGTGGCTCA
124201 CATCTGTAAT CCCAGCACTT TAGGAAGCCG GATGGGCAGA TTACTTGAGC TCAGGAGTTC
124261 AAGACCAGCC TGGGCAACAT GGTGAAATCC CATCTTGACA AAAAATACAA AAAATTAGCA
124321 AGGCCCAGTG GCACGCACTT ATAGTCCAG CTACTTGGGA GGCTGGGGTG GGAAGATGAC
124381 TGGAACCTGG GAGGTAGAGG CTGCAGTGAG CAGAGATCGT GCCACTGCAC TCAAGCCTAG
124441 GTGACAGAAT GAGACCCAGT CTCAAAACAA AAATAATAAA AATTTTTTAC AACGATGTTA
124501 TATACACTTC TGCATGTTGC TTTTCTCTTA ACCAACTTT TCTAAACCC TGTCATGAAA
124561 AAAGAAATCC TTCACATGGA ATAGCATAAG TTATTCATCC ATTTCTTATT GATAAGCATT
124621 GATGTTTCCA GTTACCACTG CTGAACATGG TGCAATTGAA TAGAATTCCA GGGCTGAGAT
124681 TGCTAGGTTT TAGGTTGTAT TTTATTATT TATTATTTTA TTTATTATT TAGACAGAGT
124741 CTTACTCTGT CACCCATGGT GGAGTACAGT GCCATGACCT CAGTTGCAAC CTTTGCCTCC
124801 TGAGTTCAAG CGATTCTCAT GCCTCCGGTC TCCCGAGTAG CTGGGATTAC AGGCACCTGC
124861 CACCAGGCCT GGCTAATTTT TGTATTTTTA GGAGAGATGG GGTTTCACCA TGTGGCCAG
124921 ACTGGTCTCA AACTCCTGGC CTCAAGTGAT CTGGCCACCT CGGCCTCCCG AAGTGCTGGG
124981 ATTACAGGTG TGAGCCATGG CTCCAGACCT GGACTTTGTC TTCTGTTTCA TCAGTCCTTC
125041 TGTGGTTTCA AGCACAGTAT CACACTGAAG ACTGATGATT CTATATAAAT ATGGTAAAGA
125101 CTGTACACCC TAACTGTTCT TATTTTTTAA TTTTAAGGCA ATTTTAGATT CCAGCTTTCC
125161 AAAGAATTGT GGAATGCTTA GAGCTAGAGA AGCCTTGGA GTCATTTAGT TTTGTTTTTG
125221 TCAGAGAAAA TTCTGTAGAG ACTCTGTCTT GCTCTCACTG AATACCATCC CATAGTACCC
125281 CCCAACAGCT TTAAAGGGCA ATAATACCTT ATGGACAGTA TGCTTTTCCT CAAATATATT
125341 CTAAGCCATG GTCAATGCAA AAGAGTGAGA AGGAAAGTAG AATAAGTTAT CTAAGAATCA
125401 GTGGGTGCTC TCTTTAAACT GATTTATCAC TCCCCCTTC AACTCTCTT GAAGGTCACT
125461 CTGCCTCCCT TTCTACATAA GAACTCCTAA CTCCAAGGGA GGAAGGTAAG TTATTCTTAT
125521 TCCTTGCTTA GAAAAAGAGA AAATAGGTTT GGTAAAGCATC CGCTTTCTGC TACCATTCTC
125581 TGTGTTTCTG TGTTTTTTAT AGGATCATT CATTATTGGT TGGCTCTTGA GAGGGAATGC
125641 AAGGTTCAAG GACACAAGCC TAGATCTTGC CTGTATAGAA CCTCATGATG TTATGCTTCT
125701 CTAAAATGAG GCCTGGAGGA GACATGTTGA AAGTGACCCA TAAATCTGCA GTATCTCATG
125761 TCTCTCAATG GGGACAAGGA GTACCATGGG AAATAGCATT AGGTCAATGA CAGTAACAAC
125821 TCCCAGGTGA GTTGATTTAT TCTTTTATT ATAAAGTTGT TAATATGCTA CATAGTCCCT
125881 AATTTTGCCA CAAATAGTCA TTATTTAAT TTCATATTC ACTATTGATA AATGAAGGAA
125941 AAAATGAGTA GCAGTTAAGC AGTCCATAAA CCTACATATA AAGCAAATTG GAGATTTTAA
126001 AATTGATTCT GGATGCTTAA AATCCTTCTC ATTGAAAAAA AATTTCTGAT TAGAAGATTT
126061 CAACATTCTT TAAACTGAGA AGCATAACAT ATAAACAGAA AACCACAGCA AAACAAAAAT
126121 GCAAAGCTCA ATAAATGAAC ACAAAGTGAA CACCATAATA ATTGCCACAC AAGTAAAAAA
126181 ACAGAAAATC AGCCAACCTT CCCAGAGCTG CCTGATGCTT GCTTCCAGTC ACATTATCAC
126241 TCCATCTGCC CTAAACATAA CCCCTATTTT GATTTCCAAT GCTGTAATTT AGTATGCCCTG
126301 TTTTGAAC ATATAAAATG GAAATAAAAC AAATGTAATC CTATGTACCT GACATATTTT

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126361	ACTCCAGAAC	ATTAGGTTTG	AATAGATTCA	TCTGTGTTGC	TGTGTATAAC	TTTAATTCAT
126421	TTTATTGTT	ATGTAATATT	CCATGTTATG	AGTGCAACAA	TTTAGGTGTC	TACTGTTGAT
126481	GCATATTTGC	TTCCCTTTTT	CAGCTAATAT	AAACAATACC	GTGAATATTC	CTGTGTATGT
126541	GTCTTGGTAT	ATATAGGAAT	ACATATTTTG	TTTGTATACC	TAGGAGAGGA	ATTGTTGGGT
126601	CAAATGCTAA	ACTCTTTTTG	AAAGTGGTGA	TATTAGGTTT	ACATGCGATG	AAATGAAAAT
126661	TAAAACCACA	GTTATAAACA	GCATGGATGA	ACCTCACAAA	CCTAATGTTG	ATGGAATCTA
126721	GCTGGGAATT	CCTGTTCTTC	CATATACTTC	CCAATATTTT	TTTCCAATTA	AAATTGTTAA
126781	TCTTTTGAAG	ATGTTATCCA	TTGTGGCAGA	TGTGCAGTAT	TATCTCATT	TGGTTTTATT
126841	TTACATCTTT	TGCCCATTTT	TTCTTAATTG	GATTGTATAT	CAGTCGACTT	GGGCTGCCAT
126901	AACAAAAATA	CTAGACTAGG	TAGCTTGAAC	AAAAGGAATT	TATTACCTCA	CAGTTCTAAA
126961	GGCCAGGCCA	GAAATCCTAA	ATTGAGGTGC	CAAGAGATTG	AGTTTCTAGT	GAGGGCTCTC
127021	TTATTGACCT	GAAGATAGTT	CTGTCTTAG	ATTGTTTGGT	GCTGAACAGA	ATACCAGAGA
127081	CCAAATAATT	TATAAGAAT	ACGATTTTAT	TTCTTACAAT	TCTGGTGGCT	ATAAAGCCTA
127141	TGGTCGAGGG	GCCCACCTCT	GGCAAGGGCC	TTCTTACTGT	TATGGCAGAT	GTGAGATGTC
127201	ATCTCATATT	CAAACCACAG	CAGTCGCCCT	TTGTGTCCTC	ATGTGGCCTC	TTCATATGCC
127261	CATAAAATGA	CCTCATGTCT	CTTCCTTTTC	TTATAAGGAC	ACCAGATCTA	TCAGACTACT
127321	GGCCTACTCT	TATGACCTCA	TTTAACCTTA	AATATCTCCA	TAAAGTCCCA	AAATCCCTAT
127381	CTCCAAATAT	AGGCACATTG	GGTGTTAGAG	TTTCAACATC	AATTTTGGGG	GAACACAATT
127441	TAGGCCAAAA	AGATTGTGTT	TTTTCTTGTT	GGTTTAAGAT	AGCTGCTCTT	TTGTCCTTTT
127501	TGTCCTTTCT	TTTTTTTTGA	GGTGGACTCT	TGCTGTGTCA	CCCGGTTGG	AGTGCAGTGG
127561	CGCTGTCTCA	GCTCACTGCA	ACCTCCACCT	CCTGGGTTCA	AGAAATCTC	CTCCTCCCAA
127621	GTAGCTGGGA	CTACAGGTGC	ATACCACCGC	GCCCTGCTAA	TTTTTGTTAT	TTTGATAGAG
127681	ACGGGGTTTC	ACCATGTTGG	CCAGGCTGGT	CTCAAACCTC	TGACCTCAGG	TGATCCACCT
127741	GCCTCGGCCT	CCCAAATGC	TGAGATTACA	GGTGTGAGCC	ACCAAACCTG	GCCTGTCTTT
127801	TCTGTTTTAA	GTTTTTAAAT	TTTGCTCAG	AACCCTTTAT	CCATTTTATG	TGTTGCAGGT
127861	ATTTCTCTG	TAACCTGTCT	TCACCTGTG	AGAGGCTGGA	GTGCAGTGGC	ACAATCACAG
127921	CTCAGTCAG	CCTCCACCTC	CCAGATCAA	GCGATCCTCC	CATCTTATCC	TCCTTAGTAG
127981	GTGGGACTAC	ATGTGCAGGC	CACCATGCCC	AGCTAATCTT	TGTATTTTTT	TGTAGATATG
128041	GTGCTGTTGC	CCAAGTTGGT	CTCAAACCTC	TGAGCTCAAG	CAATCCATCA	ACCTTGGCCT
128101	CCCAAAGTGT	TGGGACTAGA	GGTGTGAGCC	ACCACTGCAC	CCAGCCAATG	ATATCTCATG
128161	ATGCATTAAA	GTCATTAAAT	TAGTGTACTC	AAATTAAGCA	CACTGCCCTT	TTATGCACAA
128221	CCTTTTTTGT	ATCTTATTTA	AAAAATCATT	TTCTATTTCA	AGGTCATGAA	GATCTTATTT
128281	TATAATACCT	TCTTGTGAAA	TTAGTTCTCA	AGACTACCCT	CACTTCTAAC	ACCAATTATA
128341	AGTTGGGAGG	TCTGTGGTTC	CCAATCAACC	TTAGGTTAGT	AATTTGCTAA	AAGGACTCAC
128401	AGAACTTGCT	GAAGCTGTTA	GCCTCATGGT	TACAATTTAT	TATAGGATAT	ATAGCTTATT
128461	ATGTCATTCC	AATGCAATGT	AAAATTATAC	AACTACTTTT	AAAAAGATTT	TAGCATTTGA
128521	CCCAACAATT	TCACTCTGAG	GTATACAAAC	AGCAGATATG	TGTGCACATA	TATACCAAGA
128581	CACATACACA	GCAAAATTCA	TTGTTTGTA	TAGTTGAAAA	GGGGAAACAA	CTCAAGGAAT
128641	AAAGATTAAA	ATCAGCTGAG	AAAAGAAACA	CACAAGGCAG	TATTATGGAT	CGAATTGTAT
128701	GCAGATCTCC	CTTGCCCCCA	GAAGATATGT	TTAAAGTCCC	AACTCCCAGT	ACCTCAGAAT
128761	TGTGGCCTTA	TTTGGAATA	GGATAGTTGC	AGATATAATT	AGTTAAGATG	AGGTTATAGT
128821	ACAGTATGAT	GGGCTGGTGA	CTTAGAAGAA	GATGATATA	TATATTTTTT	AATAGAACTA
128881	GTATTCTTCT	AAGGTGGTCA	CGTGAAGACA	GACACACACA	GGCAGAGACT	GCGGTTATGC
128941	AGCTGCAGGT	CAAGGAATGT	CAAAGGTTGC	CAGCAAGTAC	GAGAAGCTAG	GAAGAGTCAA
129001	GGAAGGATTT	TCCTACAGGC	TCAGTGGAAT	GCATAGATCT	AATGATACCT	TCATGTCAGA
129061	TTTCTAGCTT	CCAGAACTAC	AAGAGAATAT	ATTTGTTGTT	TTAAGCCACC	CTAGCTTCTA
129121	GCTCTTTGTT	ACAGCAGCCC	TAGGAAACTA	ATATAGGCAC	AATCCAGGCA	AGTTCCAAAT
129181	ATGAGCTTCC	AGTTGTCCCT	TCCCAGTAAT	ATGAACAGTA	TTACTTTCCC	AGCATTAAATG
129241	TGTGACAATA	CACATGACGT	ACAGAGCAGT	CCCCACTTAT	GCACAAAACA	TATGTTCCAG
129301	GACCTCCAGT	GGATGTCTGA	AACCATGGAT	AGTACTGAAC	TCTATATAGC	TGTTTTTTCC
129361	TATACAGACA	CAGCTATGAT	AAGGCTTAAT	TTATAAATTA	GGCACAGTAA	GAGATTAATA
129421	ACAATAAATT	AGAATAATTG	TTAAGAATAT	ACTGTATAAA	AGTTAGGTGA	ATGTTTATTT
129481	CTGAAATTTA	CCGTTTATTA	TTTTTGGACT	GCAGTAGACC	ACAGGAACTA	AAACCATGTA
129541	GAAACCGTAT	ACAAGAGAAC	TGTATTTTAC	CCGAGCCTCA	GTGTGCAGTT	TTAATGGCCT

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129601	GCCATGGTTG	ACTGCTCACA	TGGCCGATCT	TTTAGTCTAC	CTCCACAGGT	AGAGCTGATA
129661	CTGTGTGGCT	CAAAGTTCCT	ATTATAAATC	ACATTGTTGA	CTGTGTGGTG	GTCAAAACCT
129721	CCAGGTAAAC	AAAGACACAC	TTATCAGTGA	GAACATTTCA	AGGGTCTAAA	ATTCATCTCC
129781	CAGTAGCTGA	GGGCAAAGGC	TAGACCTCTT	TTTGGGTAAG	ATAAAATTTT	TACCATATAC
129841	TTTATTTTGC	TTTTTCATGT	TAACTTTATT	TTGCTTTTCA	TGTTAGTTCC	CCTGGAATTG
129901	TTTTTTGTGT	ATAGTGTGAA	GTAGGGGGTC	AAGTTTCTTT	TTTTTTCCTT	TTGTTCCTTT
129961	TTCTGTTTAA	AAGGCTATAC	AATTGTCCCA	TGCCATTTAT	TTACAAGAGT	CCTTTCACCA
130021	TTGTTGTATG	GTGCCACTTT	AGATGTAAAT	CAATGTCCAT	ATTTGTTTGA	GCCTGTTCCA
130081	TTCGTTTGTC	TATTTTGTGA	CAACACTGCC	CTGATTATTG	TCATTTTATC	AGTTTGTGATA
130141	TTTAATAAAG	CAACAGATTT	GTTTATTTTG	GGCCCTTGGA	TTTGTGTATT	AAATTTGAAC
130201	CCTGTTTGTC	AATTTCTATA	ATAAAGCTTA	TTGGGAATCT	GATTAGGATT	ACAATGGTTT
130261	TCTAGATCAG	TTTGGGGACA	ATTAATACCT	TTAAATATT	GACCGCTTCA	ACTGTAAATA
130321	TACTCCTCCA	TTATTTAGTT	TTCCTGTTTA	ATTTATCTGA	GTAATACATT	ATAGTTTCT
130381	TCGTAGAAGT	CAGATACGTA	GAAAATTCAA	AGCCCAAGTG	CAATAGCTCA	TGTCTGTAAT
130441	ACCAGCACTT	TGGGAGGCCG	ATGTGGGTGG	ATCACCCTGAG	GTCAGGAGTT	TGAGACCAGA
130501	CTGGCCAACA	TGGTGAAACC	TCATCTCTAG	TAAAAATACA	AAAATTAGCT	GGGTGTGGTG
130561	GCGGGCACCT	GTAATCCCAG	CTAATCAGGA	GA CTGAGGCA	GGAGAATCGC	TTGAACCCAG
130621	GAGGCAGAGG	TTGCAGTGAG	CCAAGTTCCT	GTCACTGCAC	CCCACCCTGG	GCGACAGAGC
130681	GAGACTTCGT	CTCAAAAAA	CAAAAAAAG	AACATTCAA	TAATCAATGT	AGATAATTCA
130741	AATAACTAAA	AAATGAACAG	TTATTAAAAT	ATCAGGATAT	AAAAGCAAAA	AAATCAATAA
130801	CCTCCATATA	TACAAAATGG	CCAGTTAGAG	AAAAAATAAA	GAATAGGCGA	GACTTAAAAA
130861	GGCTGGGAAT	CTCCCTGAAA	ATCTTTGAGA	GCCTTGGCCC	TGCCCTCAGG	GATTTCTCTG
130921	GCTTCATGCC	CAGATATGGG	TACAGTTCCT	TGTTTAAAAA	AATTTTGCTC	CATCAATCAA
130981	CAAGGGGCTC	CTTCCTCAGA	GCACAAGGAC	CTCCATAACA	CCGGACACTA	GATGTCTAAG
131041	GGACACCTCT	TAAGGAAGTT	AGACTTCCAA	AGAATGGTGT	TTCTCTGTG	CCCAAACCTC
131101	GGAACCTACA	GCACAACCTG	TCCTTGAGT	TCGGTTTCAA	ATCTACAAGG	CTGTCATGGA
131161	GGTTGCAGAC	CAAGTCCGTG	GCCTCAGTGT	CCGGATGTAC	GGTGGCCTTG	GCACCTGAAT
131221	GTGAGAACAT	GACCTCCCTG	AAACCACCAC	AAGTATTGTT	TCATGTTATG	TATGTTTTTT
131281	CTTATCTGAA	ATTCCTTTTC	TTTAAAAAT	CAAATTACAT	ATTTTTCAG	CCCCTGAACA
131341	AGCTTCATGA	GCATTTATTG	AACCCACAGC	TTTTTAAACC	TACTGAACAC	TTTGCTCTAT
131401	GTTGTCATT	ACTATCCACC	AATTATTTAA	TTATTGATCA	ATATTGTTTC	CTTAGTGTG
131461	GGATCATTTA	TGCATGTATT	TCTTTTATAT	TGCATATTTT	ATATTCTGTC	ATTACAGTTA
131521	TTACATATTA	CTTTTGCTAC	AGTAATAGTT	CAGAAGTGTA	CATCCAAAAT	TTAGCTGTGA
131581	AGTGGATGGA	CTGAGGCAGA	ACTGGAGGCA	AGAAAATGTC	ACAGTAATTC	TAAAAAAGAT
131641	GATGTACAAT	TAGAGCAAGA	GAGTAGCACT	GAAATTGAAG	AAAAATAGAT	GCGTTTGAGA
131701	GAAAATTAGG	AGGTAGAATC	AACAGATTAG	ATGTAGGGAT	GAGAAGGGTC	AAAGATGACA
131761	CTAGGGTTTT	TAAGTGGAGC	AAGTAGGTAG	ACAGAACATT	TCTTCCTGAA	AGGGCAGGTC
131821	AGATCATGTG	TTGTCTCAA	GGGCATGAAG	AGTAGAAAGC	CTGGGACAGA	TCCTGAGATG
131881	ACCAATACCC	ATGGTGCAGG	GAGAGGGAGG	GAGATCTGCT	AAAAAGACTG	CAAATGTCAG
131941	GATAGTAGAA	AATCATGAGT	GTGTGATGTC	CTGGAAGTTG	AGACAGTATC	ACATTTGAGA
132001	ACATTTAAAT	TGGTAACTCT	GACAAAACCT	GGAGGCCAAC	TGTGAATGCC	CATGAGAGTG
132061	AGAAGCTCCC	ACACTTTTGT	GGGCATCAGA	AAGCCCACCA	GGTTCCTGCA	GTGAAGATCT
132121	GAGAAGGATC	CTCTTGTTGG	TTTGGCAGGG	AGAGAAGAAT	TATTATGAAA	TACACCCAG
132181	AACCTTCTTC	AAAACAAAGG	CCTACTCTCA	AGGGGAAAAC	ATTTTGCCAG	AGTCTTATCC
132241	CAGCTGGGAG	AAGGTAATTC	TTCCCACTGC	AGCCTCATCT	AGGCTTCTG	TCTCACTTAA
132301	GGGAAGAAAA	TTAGTCAACA	GGGATCAGAG	CTTCATGAAA	ATAAATTGGA	AATGGTGCAG
132361	CCAGGAAAGG	AGCAAAGGTC	TGAGGAGGAG	GAGAAGGAGG	AAGAGGAGTT	GTATCATTAT
132421	AAATACTTGA	GGAAGAGGAG	GAGAAGGAGG	AGGAGGAGGA	GTTGTATCAT	TATAAACACT
132481	TGAGGAAGAG	GAGGAGGAGA	AGGAGGAGGA	GGAGTTGTAT	CATTATAAAC	ACTTGAGGAA
132541	GAGGAGGAGG	AGAAGGAGGA	GGAGGAGGAG	TTGTATCATT	ATAAACACTT	GTGACGGTCC
132601	CAGCCCCAAG	ATATAGGCAT	GCTAATAAAC	TGAGGCTTAA	CACTTTGACT	ACAGAATGCT
132661	GCTTCTCCCT	AACACCATCA	AGGCTCCAAC	TGAATAACAA	TGAATTATGA	ATGAAAGAGC
132721	TGTAAGGAGA	GACAAAAGTT	AGAATGAGAC	AAGTATTGTT	ATCTAGAGAT	GCCAAGAAGG
132781	CAAGGAAGAT	AACTAAAAAG	GCACTCTGGA	TTTAGAAATA	GGAAGTCATT	AGTGACCTTG

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132841	TAAATAATGG	AGCCAGAGGA	ATACCAAGGG	CAGAAGCCTC	ACTATAGTGT	GTTGCACCTG
132901	TCAGAGGTCA	GGAGGTGTAA	CTGACTCTCC	CACAGTGTGG	CTTTGGAAGA	GAGAAGTCAG
132961	CAGCTGCATG	GAGATTTGGG	AGAGGGAAAG	CTTTTTTTTT	TTTTTTTTTAA	TTGGAAAAGA
133021	CTGAGCTATG	TGTAAATAGA	ATAAGACAGG	AAGAGTGTAG	ACACAGGAAA	GAGGGCAGAC
133081	AAAAACAAGT	GCACAGTTAT	CTAAGGAAAA	CAATGGGATC	AAGCTGCAAG	TATATAAACT
133141	TGTCTTGATA	GAAGAATCCT	TGATCTGGTT	TATTCACTGT	TTGGTCCAAA	CCCACATCCC
133201	TGTTCTGCCT	GTCTCTGACT	TGCTCTGTGC	CCCAGAAGCC	CAGCTTCTAC	AGATAGCATT
133261	AGCTGGGCAG	CCCTGCCCTC	TTGCAACAGC	TGGATTTGGC	CAGTGATCAG	CCCAGCAGGA
133321	ATGTAGATGG	CAAAGGAGAG	AGAGGTTAGT	GTACTTATTC	CCTGCATCAC	CCCCCTGCTT
133381	GGTGGGCAGC	TCTTCCTCCA	CAGTCCCAGC	TCTGGCCTAG	CTCTGGTTAC	AGGTTCCCTC
133441	CCATTGCCTC	TTCAGATTTA	AAGGTGTGTC	TGTCAGGGTA	TAAGTGGGAG	CTAGAAATTG
133501	CACTGAAATT	GAACAAAGAA	TTTTATGGGA	ATGGTTGTTA	ACTAGTTATA	GTAGACTTGA
133561	AAATGGAAAA	GTGGAACAAA	CGTATCAGAG	ATAGTAATGA	CAGAAAGCAA	CTACCACCTC
133621	CAGGTTTAGG	AGAACAAGGA	AAAGATTCTT	TGAAGAGATC	CCCAGAACTG	GGACCTCTGA
133681	GGAGTGTATG	CTGGACCACT	GATGATGATA	TGTCTGTAGA	TAGAGGCATG	ATGAGGCTGA
133741	TTTTAGGAGC	ATGGAAGATC	TCCAACTGA	AGCCAACTGC	TGTTACTGGA	TTCAACTGCC
133801	ACTGCCAGGT	TGAAGAACCC	ATTCTGTGAG	GATGTCAACA	AACAAAGTGG	GAAATCTTTT
133861	CACATCCTTC	CAGCCCTCTA	GTCTTCCTCC	AGTGCTTTCT	ATTGGTAGGG	TTTGGGGAGG
133921	TGGCTAGCAA	AGCGGTATTG	GAAAAGATAG	AAGAGACTAA	ATCTTCATAA	CCAGCACAGG
133981	GTGACACTGG	ATCACTACTG	TTGCTGATCT	TGGGCTGCCT	CATATCCCCT	GTTCTTCCCA
134041	TTAGCCCTGT	CACAACTTTG	TAGATATCCC	TTCATTATAT	GCCCTTCATA	TATCTTTTGT
134101	GTTTAACTTT	TTCTGTTGGA	ATCCTAATAT	GGCACTCCTC	CATTTTTTCAG	GACCAAAAGA
134161	GTATAAAAGA	TTATCTTTTA	CCAAAAAAA	GACAAAAAAC	TGATCTAATT	CCTGATTTGA
134221	TCATTACACA	ATCTATACAT	GTATCAAAAT	ATCACATAGT	ACCCCATAAA	TATATACAAC
134281	TGTGTCCATT	AAAAATAAAA	ATTAAAGAAA	AGATGGTAAA	TATAGCTCTG	TCAGGCAGTG
134341	GAGGTTTTAC	CACGATGGCT	GTTATTTCCC	CCATGAAGGG	GGGAGTGAGG	GAGCAGCTGA
134401	AAGTAGGTGC	TTATAGGGGT	ATAGAGGGGC	TCAAAGCTTT	GAGAGAGGAG	AATGTCTGAA
134461	AGAGCTGCCA	AATAGCATGC	AGGTCCCATG	GGGGCAGAGC	CTCTGCTCAT	TCACCAGTGC
134521	CTCTTCAATA	TCTACACTTA	AGCCTAACAC	AAAGTGTGTG	CTTAATAAGT	ATTGTCTGAG
134581	TATGTAAAGT	GGAAACAGAA	CCAATCTGGC	AAACTTTGTA	GGACTGGTGG	GCAATGAAGA
134641	TCAGTCAGGT	AAAATCTGTG	GATATAAATT	TATATTGATC	AAAAAATTCA	AGGTTAGGTG
134701	TTTTTCTTCA	GTCATGCTCA	ACGATGCTTC	AGCCATGCTC	AACTCTTCTG	TAGCCACAGA
134761	AAAAAGTTTA	CCCATAATCG	AGCTGTGTCT	GTGTCTGAAT	AATGAAAAGA	CCATGATGCA
134821	AGGGAGTTGG	AGACACAGAA	ACAGTGTTTG	AAGTAATGGG	TAATGGAAGC	ATGCTACCAG
134881	GGAAAGGAAA	GAAGTGGCAA	TAGGAAGGAA	CAGAGATCTG	TGGTCCTATG	TCCCCTGAGC
134941	ATATTACAT	GTTAAAGCTA	ATTCAAGTTT	CAATCATCAT	TAAAATTTTG	TTCTTAAATA
135001	TATGGCCATT	ATTTTCCACA	ACCACACTAA	AACTTTATTA	CCTCTGGCAA	GTGACTATGC
135061	AAGTAACTAA	GAGCAAAAAT	ATCCACAAC	ACCATTTGAG	CTATCAATTT	AGGGAAAGTC
135121	ATCTGGCTAT	AATCTAAGTG	ACCTCCACT	GAATGTCAGT	ATCTTTGCAT	ATGTGATTTA
135181	AATCTGGGCC	TTGCAACAC	CATGAACTGT	TCTTGTCTTG	AATATCCAGA	TTGAAGGAAA
135241	TAATCTGAGT	AGTTACGAGT	CCTGAAGCTA	GAAAGATGGA	AACCCCATTT	GCTCATCAGA
135301	AAGCCTTAGA	GCTTGGGCGC	TGGCGGTGCC	TGTCTCACCG	GGACAGAGGG	GCTCTTTCCT
135361	CCCCATCTGA	TAGTCTGATA	ACTAGAGAAG	CCGGCCAAC	TATTCTCCAA	GAAGGAGCCA
135421	TCTTAGTTCC	TCCTGAAATG	TTCATATTTA	GAAATTATTG	TTTGTCAATA	ATTTAACCCC
135481	TTAATGGGCT	TGCCTTGTGG	TCCATACCAC	TGAGTGCAGA	GCTTGCCTGG	AAGAATTGTG
135541	AGGGCCATT	CATCTTCCAG	GCAGTAGAGT	TCAGTACTTC	TTTAAAATTG	CTGCTGAACT
135601	CTGTATTTGA	AAAGAAAGAA	TCAATTTGGG	GTGGTAGCTC	ACACCTGTAA	TCCTAGCGCT
135661	TTGGGAGGCT	GAGGTGGGAG	GATCATTTGA	TGCCAGGAGG	ACCACTTGAG	ACCACCCTGG
135721	GTAACATAGC	AAGACCCTGT	CTTTAGAAAA	AAAAAATACA	ATAAAATAAA	TACAATAAAA
135781	ATAAAAGCAA	AAAGAAAGAG	TCCATCTTAG	GGACAGACTG	TAAGTACTCA	CTGGAGCTTA
135841	CCTTTACATA	GTTCAAGATC	AATTATAATA	AAACACTTTT	GTGCAGATTC	AATAGGATTA
135901	TTTTAATCCC	CATCATCTCT	CTGAGTTTCC	AGTCAGTTTC	TCTGCATGTA	GACACCCTTC
135961	TCCAGCCAC	CATTGTCTCT	CCTCCTATAG	CTCCACCAAC	AAATCAGAAC	TTTTTCTAAC
136021	TGCACCTAGT	GCACCTAGAG	TCTACTCCAG	AATGCTCATG	GAGAAAGTTT	CTGAAAGGTA

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136081	AAACTCTGAA	TGATATTTGT	AGCTAAAGGG	AGACTTGCTA	GAGACAATAA	GCTAATAGTT
136141	GTAGACTTCA	GTAGAAGAGG	AATGACACTG	CAATGTCAGG	GTGCAGGACT	TCAAGAGGGC
136201	AGAGTATGGA	AACCCAATGG	GAAAAATGCT	CACCAGGAAC	ATGAAGAGAA	GGAAATTACGT
136261	GTAAGGATTT	CTCAATGTGT	TCCCAAATTT	GCCCAGCAGA	GGGAGGCCTC	GGGTTGATGG
136321	CAGGCTGACC	ACACAATTAA	AGAAGGCTGA	ACCTGGGGGC	TTTTAACAAC	CATCGTGGGC
136381	TCTACTGTAA	GCATTTAGAA	AAAGAAAGTT	ATCCATTCAA	AAATATATAT	ATTTTTAAAC
136441	TTCAGAACAA	AATTATGAAG	AGCTATATTT	ACTTTTCTAC	ATTCTAATTT	TTATAAATCT
136501	GAGTATATTT	TGCATATATT	GTTATAGTAC	ATATTCAATT	TTGTATTTTG	CTGTTTTTAC
136561	TTAACCATTT	TTACTAGATT	ACTCTGTGTT	CATAATAATC	ACTTTTTTAA	AACTTTTATT
136621	TTTATTTATT	TATTTTTTTT	TTGAGTCAGA	GTCACACTCT	GTCGCCCAGG	CTGGAGTGCA
136681	GTGGCGTGAT	CTTGGCTTAC	TGCAACTTCC	ACCTCCTGGA	TTCAAGCAGT	TCTCCTGCCT
136741	TAGCCTCCTG	AGCAGCTGGG	ATTACAGGTG	TGCACCACCA	AGCCCGGCTA	ATTTTTGTAT
136801	TTTTAGTAAA	GACGGGGTTT	CACCATGTTG	GTCAGGCTGG	TCTCCAACCT	CTGACCTCAT
136861	GATCTGCCCA	CCTTGGCCTC	CCAAAGTGCT	GGGATAATCA	CTTTTTATGC	TGCATAATTC
136921	TTCAGATTTG	TCAGTACGAC	TGTATTTACA	CTCATTTGTT	TTATTAGAAA	GAATTCACGA
136981	ATATTTTGGC	TGCCCTAATT	AATTTTACAA	TTAATATGAT	TTTGAAATTG	GGTATTGGCT
137041	CCTTCTGAAT	TGGTTTATTA	AAATATATTC	TAATGTAAAT	TATGACATTT	TCATCATATT
137101	AGCATATTTA	TTCTGTTAGA	ATTTTCATAAT	TTATAAAGCT	ACAAACTGTA	TGTGATATAG
137161	CTTGTAACCT	TATCTCATAA	CTTTATGCAG	TTACAAGTAG	AAATAAAATG	TTCCCTCTCA
137221	GATTGCTTAA	AATTTTATTA	TAAACAAGTG	TAAAAAACAA	AATCACTAAA	ACACTCCCTC
137281	TTTTTCCCTC	CAAAATGCAT	GTTTCCATTT	TAACAGAACC	CGTATTTAAT	CAGCAGATTT
137341	CTATGGTGGC	TAGATTTGTA	GAATAAATAT	TAAAAGTCCC	AAAGCAAATG	CATTTTTCTC
137401	TTAAATTTTA	CTGACTTTTT	TTTTTTTTCT	TTTTCTGAGA	CGGAGTCTTG	CTCTGTCGCC
137461	CAGGCTGGAA	TGCAGTGGCA	CAATCTCGGC	TCACTGCAAC	CTCCGCCTCC	CGGATTCACG
137521	CCATTCTCCT	GCCTCAACCT	CCCGAGTAGC	TGGGACCACA	GGCGCCCCCG	ACCACGCCCA
137581	GCTAATTTTT	TGTATTTTTA	GTAGAGACAG	GGTTTTACCG	TGTTAGCCGG	GATGGTCTCG
137641	ATCTCCTGAC	CTCATGATCT	GCCCACCTCA	GCCTCCCAAA	GTGCTAGGAT	CACAGGCATG
137701	AGCCACCGCG	CCCCGCCTAC	TGACTTTTAT	CCAAAGAAAA	TATAAGAGCT	CTTCATCATA
137761	ACGTATGTTT	CTTGCTCTTG	TTATTAAATA	TGACACATTT	AGACTTAAAC	TGATTTGAAG
137821	GTTTATGACA	TTGTTTAAGT	TATTACATAA	TTAATTCATA	AAGATAATGA	CTAGTTTGAA
137881	CTACTGACAG	CTCACACATC	ATCAGTTGAA	CAGCAGAAAG	CTTATTAAGC	TACTTTCTTA
137941	TGTTTCTGTC	TCCCAGCTAC	TAAAAGAAAC	GAAACCCTTC	CAGGTGTTAA	GGCAAACTT
138001	TCCTCCCCCT	TTCTTCTATA	AATCTGATTC	CATGTTAGTG	AAATTTCTAC	TGATGGCTTT
138061	GGTTTCCTCT	ATAGTAGAAT	AGAGATCCTA	TGGCAAAAGT	CATGTCTGAC	ATGGTAGCAA
138121	ATAGAAATGG	GGAAAAGGAA	GGTCTGCAAG	AGCCAATGTG	GGAAATGGGG	AGAGGACTGA
138181	CTACAAAAAC	CCAGCAGGAA	TCCAGAAGA	AAACTCCTCA	GGACGGGCAC	ATTGGCTCAT
138241	GCCTGTAATC	CCAGTACTTT	GGGAGGCCGA	GGTGGGCAGA	TCACTTGAGT	CCAGGAGTTT
138301	GAGACCAGCC	TGGTCAACAT	GGCGAAACCT	CATCTCTACA	AAAAATAAAA	AAATTTGTCA
138361	GGCGTGGTGG	CATGCACCTG	TAGTCCCAGC	TACTCAAGAG	ACTTAAGTGG	GAGAATCACT
138421	CGAGCCTTGG	AGGTGGAGGT	TGGTGAGCCG	AGATCACGCC	ACTGCATTCC	AGCCTGGGCG
138481	ACAAAGTGAG	ACGCCATCTC	AATCAATCAG	TCTCCTCGAA	AAGCAACATT	ATGGAGAGAC
138541	AGGATTCCGT	CAAGGCCCTGG	GGCACACAGG	AAAATATTAA	GGCAGAAGAG	AGTTTCTCTC
138601	CCACACCACA	CCGTATCCCA	CAGGCACCTG	GGATGTGCAT	ATGCAAGAGG	GGTTGATCCT
138661	AAGAATTTAG	AGTCACAGAG	GAGGAGGCAC	CAAGCAGACT	GTGGAGAAAG	TCATGACCAG
138721	AAAGGGACAG	AATGTAAAGC	TTCAGCTGAT	TATCTGGCCT	CAGGGATTCC	AGAGGAACTG
138781	GTCCCAATGG	TCTCCTGGTG	ATGTAGGTTT	TTAGGTTTCT	TTTACAGGGG	TTTTCTGGGA
138841	GATCGTTGAC	CCAGTTAGCA	TTCAAGCAAC	TTCCACCCTG	CATTTTATT	CTTTCCCTTT
138901	CACCTGCTTA	GGTTTTATCT	GTCCAGGCAA	TAATAATAAA	ATTATTGAGC	CCTGGACATG
138961	TACCTGTAAA	GCTCCTTAAA	GATGATGCCT	TCTAACTCCT	CATTCAACAG	ATACAAAAAC
139021	ATTACAATAA	AATGACTCAT	GCAAGACACC	CAGGTAGTTT	ATAGCAGCTA	ATAAAAAACG
139081	AATAACTATA	AAATATGGTA	AGTTTATAAA	AGTTACATTG	AGTATACTTT	ATAAGAACTG
139141	CTTATTGAGT	TTGCCTAATA	ACCACACAGC	ACAATAATAA	TATGTATATA	TTTTTAAATA
139201	TGTGTAAATA	TGTGTAACAC	AACTTGTAG	AAGGTATATC	TGAGTACAAC	CCTATTCTGT
139261	TTGGTTACCT	TTTCTAGTTC	ATTATGTAAG	TGGCATAGCT	ACCTAAGGAC	TTATGCTTAT

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139321	AAATGTTACT	CAAAAAAATA	CAGAGGACAT	ATGTGGATAG	ATAATGGAAG	AGATAAGATA
139381	GGTAGGTTGA	AGGGTTGGGC	TGCCCCCTCCA	CACCTGTGGG	TGTTTCTCGT	TAGGTGGAAT
139441	GAGAGACTTG	GAAAAGAAAG	AGACACAGAG	ACAAAGTATA	GAGAAAGAAA	AAAAGGGGTC
139501	CAGGGGACCG	GTGTTTCAGCA	TACGGAGGAT	CCCACCGGCC	TCTGAGTTCC	CTTAGTATTT
139561	ATTGATCATT	ATTGGGTGTT	TCTCGGAGAG	GGGGATGTGG	CAGGGTCAAA	GGATAATAGT
139621	GGAGAGAAAG	TCAGCAGGTA	AACACGTGAA	CAAAGGTCTC	TGCATCATAA	ACAAGGTAAA
139681	GAATTAAGTG	CTGTGCTTTA	GATATGCATA	CACATAAACA	TCTCAATGAC	TGTAAGAGCA
139741	GTATTGCTGC	CAGCATGTCC	CACCTCCAGC	CCTAAGGCAG	TTTTCCCCTA	TCTCAGTAGA
139801	TGGAATATAC	AATCGGGTTT	TACACTGAGA	CATTCCATTG	CCCAGGGACG	AGCAGGAGAC
139861	AGATGCCTTC	CTCTTGCTCT	AACCTGCAAAG	AGGCGTTCCT	TCCTCTTTTA	CTAATCCTCC
139921	TCAGCACAGA	CCCTTTACGG	GTGTCGGGCT	GGGGGACGGT	CAGGTCTTTC	CCTTCCCACG
139981	AGGCCACATT	TCAGACTATC	ACATGGGGAG	AAACCTTGGA	CAATACCTGG	CTTCTCTAGG
140041	CAGAGGTCCC	TGTGGCCTTC	CTCAGTGTTC	TGTGTCCCTG	AGTACTTGAG	ATTAGGGAGT
140101	GGAGATGACT	CTTAACGAGC	ATGCTGCCCT	CAAGCATTTT	TTTAACAAAG	CACATCTTGC
140161	ACAGCCCTTA	ATCCATTTAA	CCCTGAGTTG	ACACAGCATA	TGTCTCAGGG	AGCACAGGGT
140221	TGGGGCTAGG	GTTAGATTAA	CAGCATCTCA	AGGCAGAAGA	ATTTTTCTTA	GTACAGAACA
140281	AAATGGAGTC	TCCTATGTCT	ACTTCTTTCT	ACACAGACAC	AGTAACAATG	TGATCTCTCT
140341	CTCTTTTCCC	CACAGGAGGT	GATGGCCGGA	AGAACATGGC	AGAGGGCAAA	ACAAAACAGC
140401	ATTGGGAACA	AGCTCTGTTT	AAAAGGAGAC	TTGTGAACAG	CAAAGAGTAG	AAAGGGTTCT
140461	CTTACAACCTG	AAGCCCATGG	AAGACAAATG	TGTACTGCGT	GAGTTTTAAG	GCAATAGGAG
140521	TAGTGGGACC	TAGGGCACAC	CAGAGAGCAT	ATTAACCTCT	AAACTTTTAA	AAACATTATA
140581	TCTGTCTGGAC	ACAGTGGCTC	ACACCTTAAT	CCTACAACCT	TGGGAGGCCG	AGGCGGGCGG
140641	GTGTAGCTTG	AGCCCAGGAG	TTCCGAGACCA	ACCTGGGCAA	CATGGCAAAA	TCCCGTCCCT
140701	ACAAAACAAA	CAAAACAAAA	ACAAAATTAG	CCAGGCACGG	TGATGCGTAC	CTGTGGTCCC
140761	AGCTACTCAG	AGGCTGAGGT	GGGAGGATCG	CTTGAGCCCC	GGGAGGTTAA	GGCTGCAGTG
140821	AGCCATGATA	ATGCCACTGC	ATCTCAGCCT	GGGCAACAGA	GGGAGAACCT	GTCTCAAAAC
140881	AAAAACAAAA	ACACACCATA	CCCAACCACA	ATGCATCTGT	CTTAAGTACC	AGTACCACAC
140941	CCCTCTACTC	ACTACTAAAT	AGGTGAGTTC	CCAATCCCTG	GTAGCAGGTT	TAAGCATGTT
141001	ATATTAAAGG	TCTTAGGCTA	GTGACTCATT	CACCTATTAA	ACAAATACTT	ATTGTGCATC
141061	TACTATAAAC	TAAGTACTGT	GCTAGGTACA	AAAGCAAATA	ATCTAAGCTC	TATAAACTTT
141121	ACTTTCCTCA	TCAACAAAAT	GGAGATGTTT	TAGGCATCTA	CTCATCATTC	TGAGCTCCAT
141181	CTTTTGTGAC	TGTAGTTGGC	AGAGCTTTTT	ATCAGTTTCT	CTAAATAGCT	CTACCAGTCC
141241	CTGGTGGATG	CTGGCATGCC	CAAAGGATCC	ATCCTGATGG	CCCTGTCTGC	TTACCTTACC
141301	TGCCTGCCTT	TGCAGCACCG	CTCTGCTCTT	CTGCAGGACT	TCCCTTATCC	TTTGGGGTCT
141361	TGCTGCTCTT	AGGCTGCTCT	GCTTGTTTTG	ATCTGCTTTG	CATCACATGT	ATGTAAAGGT
141421	CCTTTCCTTA	TTTACCCATG	ACCAAGGTAT	TATGAGATTG	TGGAATTTCC	CCAAACCACA
141481	TTGATTGCTG	GGAGAATAGA	AGAAGTGGAT	TACAAGTGGA	ACTTAGAAGG	GGAGTATTCC
141541	AGAAGACGTC	TCTGCAAATC	CATTTAGAGA	GACCTTTCTC	CAGTGGTGAC	TCAAAGATGC
141601	AGTCCCTTTC	ATCCTGTGGC	TTGGCCATCT	TCAGCACATG	GCTCCCAAGG	ATGTCCTCAG
141661	GATGGTCTCT	AATCCAAGGA	GCCTGAAGAG	AAAAAAAAGG	ATGGAGTATT	GTGATGGGTA
141721	GGTGGTTATG	GACCAGTTAT	GGAAGAATAC	ACATCACTTT	TGCCCACCTT	CTACTAACCA
141781	GAATCTCACAC	AGCCATAGAC	ACTGACAAGT	AGGACTTAAC	AAGAATCTAA	TTTTGAGTCT
141841	AGGAATACGA	CTGTAGCAAA	TATTTAACAG	CTTCAAAACAC	AGGTGCATTG	CTATCACTAT
141901	GCTTGGCCCA	GGCCTGTCTC	CCTTTCCTGC	CATGTCACAG	GGGCCAGCAT	TTATGTCTAG
141961	ATTGGGTTGG	TTGGGATATT	AAGACAATAA	TGAACCAATA	CAACATCTTG	AGCATAAAAC
142021	CAACTGATAC	AATGATGTAC	AAGTCAGATG	ATTCTGATGA	TTATGAATTA	TGTCAATAAA
142081	AGAAATGTGA	TAACATAAGG	AATTTTTGTT	TTGGCAAATT	TTTGTGTTGT	CATGACAGGA
142141	TGAAATCCTG	TCATTTGTAG	CAACATGGAT	GGAATTGCAG	GATACTACAT	TAAGTGAAT
142201	AAGCCAGAAA	CAGAAAGTTA	AACACCACAT	GTTCTCACTT	ATATGCAGAA	GCTAGCTAAC
142261	TAAGTAAATA	AGTTTATCTC	ATTGAAGTAA	AAAGTACAAC	AGAGATTACT	AGAGGCTGGG
142321	AATGGTAGGG	GAAAGAGATG	ATAAAGAGAG	ATTCAATAAA	ATAAGTTACA	GCTAGATAAG
142381	AGCAATCAGT	TCTAGTGTTT	TATTTGTACT	ACAGAATGGC	AATAGTTAAC	AGTAATAAAT
142441	AATTTCAAAG	AGCTAGAAAA	GAGGACATTG	AATGTTTCCA	ACACAAAGAA	ATGAGAAATG
142501	CTTGAAATAA	TGGATATTCT	AATTAATTAC	CCTGATCTGA	TCACTATACA	CAGTATGTAT

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142561 AAAAATAACA CTATGGGCTG GCGCAGTGG CTCACACCTG TAATCCCAGC ACTTTGGGAG
142621 GCCAAGGTAA GCAGATCACT TGAGGTCAGG AGTTAGAGAC CAGTCTGGCC AACATAGTGA
142681 AACTCCATCC CTAATAAAAA TACAAAAATC AGCCAGGCGT GGTGGCATGT GCCTGTAATC
142741 CCAGCTACTC AGGAGGCTGA GGCAAGAGAA TTGCTTGAAC CCAGGAGGCG GAGGTTGCAG
142801 TGAGCCGAAA TCGCGCCACT GCACTCCAGC CTGGGTAACA GAGCAAGGCT CTGTTTCAAA
142861 AATAAATAAA TACATAAATA AATATTTTTT AAAAAAAGAA CATCACTATG CACCCCATAT
142921 ATACATATAA TTATTATGTC AATTTGAAAC ATAATTTTGA AAAATGAAAA AATGAAACAC
142981 AAATATGAAT CAATCCTCTC CAAGTTGATA TACTTAAAAG GAAAAAAGTC CGAGGGCTTA
143041 AACTATTCAA TCAAAATTTT ATTAAAATGC TATAGTAATC TGGAAAGTAT TTCAGAATGA
143101 ATTGGTATAA GGTAGACAC AAAGATCAGT GAAACAAAAT AGAGAACCCA GAAATAGATT
143161 CACACATCTA TGGACAACCTG GTTTTGACAA AGGTGTCAAG GCTATTTAAT AAGTAAAAAA
143221 ATCGTCTTTT CAGTAAATGT TTCTTGAACA AGTAGACATC CGGTGTGGGG GAGAGGAGCA
143281 GGAGCCTTAC CTCAAACTTT TTCTTTAAAA TAACCTCAAA TAGACCATAG ACTTAAATGT
143341 AAAAGCTAAA ATTATAAAAC TTCTTTAAAA AATAGGAGAA AATCATCAAC ACCCTAGGAT
143401 AATGAAAGAT TTCTTTAAAA CAAAACAACA GGTTTATAGT TTATAAAACA TAAATAACAA
143461 AATGATAAAT TTCATCAAAA GTGAAAATTT GCTTTTCAAA AAACATTATA AAATGAAAAG
143521 CAGGAGGCTG AGGCATGAGA ATCACTGGAA CCCGGGAGCT ACAGGTTGCA GTGAGCCAAG
143581 ATGGTGCCAC TGCACTCCAG CTTGGGTGAC AAAGTGAGAC TCTTCCTAAA AAATAAATAA
143641 ATAAATAAAT AAATAGAAAA GAAAAAGAAA AATCACAGGC TGAGAGAAAA TATTTATAAT
143701 ACATGTATCT GACAAAGGAC TCGCACCTGG AAAATATAAG GAACCTTATA ACTTAGTAAG
143761 ATGACAAGCC AAAACAAAGA GTAAAAGTTT TCAACAGACA TTTCACAAAA GAAAACATAC
143821 AAATGGCCAG TATGCACATG AAAAGATTTT AAACATCATT AGTTACTAGG GAAATGCAAG
143881 TCAAAACCAC AATGAGATAC TTCACATTCA ACAGAATAGC TAATGTTAAA AGGACTGACA
143941 ATCCCAGGG TGAGCAAGGG TGTGGAGGAA ACTACTCTCA TATATTGTGA ATGTAAGAGG
144001 CATTTTATGA TATAACTGAA TTCAGTTTAA TGTATAACTG AATTACGGAT ATGAGAATCT
144061 CAAATGAGGA CGAATGGTTT TTACGCACAA AACATGAGAC ACAAATCTGT AAGAAATATA
144121 AAGTCGTGAC CACGTCCTTT CAGAATTTTA ACCTGTTTGC TGAAGTACGT CAGTAACAAT
144181 GGCAGGGAAA GGGTATCTTA AATTTTACCA CAGCCTCAAA GAGGCCATTT CGTGGATCCG
144241 CTGAGGCTTG GAGTCGCGCT TCTGACCAG AGTCCTGCGG CTATGAAAGA GGAAGCCGCG
144301 GTTCAGGGCG TCCTCGCGAG TCGCGCAGCC CGCCCTGCTC CAGCTGGGGA CACAGGTGGT
144361 CACGGCGCTT TCCAGCTGCA GATCCAGGCG GCAGCCCAAG ATTTGGTCCA GCCGCCAAGG
144421 GGTGGCTCGA GTGACTGACG GGCCTTGAAC GCTCCAGGA CCCACATCTG GAGAGGGAGG
144481 TGGGGGTGGG GTGCTGAAGT CATTCTTGGG GCCCTTGGGG GCGGGCATGG ACCTGGGTAA
144541 GGCCAGAGAA ATTGACACCT CGTGACATCC CTGGAAGAGA AGTACGTTCA GTGTCACTCC
144601 AGAGCTGAAA GATACCGCCT TCTGGCTGGT CCTCCTCAC CTACATACTT TTCTAATTTG
144661 TCTGGAGCAG GCCGGGCATC TGTATTATCT GGTATTATAA ATATCTGGTT ATTTAAAGC
144721 TCTCCATTAA ATTACATAC ACGAAAATAA AAATTAATAA AAATTTTAAA AAAAAGAAAC
144781 AAAAGCTCTC TAATGACCAA GTCCTACAG ATAGTGAATA AATTTTTTTG TGTGGTCCCT
144841 AAAATTGAGT TCATGCCTTT TCTGAAGTAA TAGACGCCCA GAGAAGGGAT CGACTTACCC
144901 ATCATGCCAC AGAGATTAAT TGGCCCCAGA ATTCCTTAGC AGACCGTGT TATGAACGTC
144961 CTTTGCAATC ATATAAATTA ACTGGGAAAA CCTCATTTAG TATGTTACAT GCCTAGCGTT
145121 TTGTGCCTGA ACACCTTACA AGAACAGGG ACTATTGCCC CAATATTATA TTTCAGGAAA
145181 GGAAGGCCCA GACAAATGGT GTCACTGGTC CACTTTCACC CAGTTGGTAA ATGAAACCAG
145241 AAATTATAGC TGTACCACAG AAAGGTGAAA ACGTTTCTTT TATAATTTCA CATACAATCT
145301 TTAATGGACC CAGTGTCCAA CACATTAAAG CAAGTGCTCA GGAGTGACAT CAAGATGTAA
145361 AAAATAGTCC TGTCTCAGG GAGTTTAGGT CTTGGAGAAA AGAGACCCAA GGAGACACAA
145421 GACAAAGGGG AAAGAGAAGG AGCGCTGAAG ACTGAGGACC CTGCCTGTGG ACTGAAGTGA
145481 GGATGGGGAC ACCCGATGCC CGGAATATGA CAGTTTGGAG GGGCCTGAAG GACTCTTCTA
145541 TTCTCTATCA GAAAAACAGA ATTACTCTCC TAACCAGAAA AGGTATTTCA ATTTATATTT
145601 TCCATCACAG CACTTTTCTG GTGATAATTT AATGTGTTTT AAAAAATGTA TCACAGTGAT
145661 GGCCTGGTGT GAAATAAATA ATAAATTTT AAGAATTAAT AAATATAAAA ATCTTTTATA
145721 TAGACATTAG GAGTTACAAG GATACTGTG AATTATAATT AGTAATTAAT TTGAAATACT
145781 GATTATTTTC ATTTTATATT AATTATTTAA TAAAACCTAT TTAACATTTA ATATTTATCA
145841 GTAATTAAAT CTAATTGTTA ATATTTATTA TTATAAATTA TTTTAGAATT AAAAATAAGT

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145901 GTAGAAGCGA GGCATGGTGG CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG
145961 GAGGATTGCT TGAGCCAGT AGTTCAGAC CAGCCTGGGC AACATGGAGA AACCTGTCT
146021 CAATACAAAA AAATGAGCCA TGTGTGGTGG TGCGTGCCTG TATCCCAGC CATTCCTGGAG
146081 GCTGAGGTGG GAGGATGACT TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CCTGATCTTG
146141 CCACTGCACT CCAGTCTGGG CAACAGAGCA AGACCCTGTG TCAATATACA TATGGACAAA
146201 CTTAAAAATT AAAATGAAAG CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG
146261 TCCATAAACC AGAACAATAA AGATAAAAAG GAGAGTGGA GAAGGTATGT CATGAATTTT
146321 ATGATAAATG GCAATTGCAA ATATCTGTGA GCAGAACAAA ACAACAAAT TGATAGATAA
146381 ACATATCCAA CCCTTTGGAA GGCCAAGGAG GGAGGATTGT TTGAGCCCAG AAGTTGGAGA
146441 CCAGCCTGGG CAACATAGTG AGACCCTGTA TCTAAAAAGG AAGAAAGAAA AAAAAAATAA
146501 AGGATGATAA AGTAGACAAT ATTGAAAGCC ATTTTCTGCA AATACATAGT GAATTTGATC
146561 AGTAATTTTC TTCCAACAGT GCAAAAATGA ATAGATATTA GTTGCCTGAA ATAAAAATCA
146621 AATATCCAAC AAAAAATATT GACTATCTAA TAGTATCTAA GCTAGTAAAT TTGGCCAGTT
146681 ATAAAATGTC TTAAATTTTT ATTTAAAAAA AGAAAACCAT ATTTATAAGA AGAGGTGATA
146741 AAGAGAAATT ATTTAGTTA TGAAGATTTT GTTAGAAAAC TATGAGAAA AAATATTTT
146801 TTGTTTTCAA AAAGTGAAAG ATTAAGTTAC CAAACAGTTG CTAAAGAATA CCAGATGGCT
146861 GAGCGTGGTG ACTTATGCCT GTAATCCAG TACTTTGGAA GGCCAAGGCA GGAGGATCAT
146921 TTTAGGCCTG GAGTTGGAGA CCAGCCTGGG CACTGTAGCA AGACCCTGCT CTATTAAAAA
146981 AAAAAAATAA AAAAAAAG AATACCAGAC CTTGCTAACA ATAGCAAAGA TCAATTAATT
147041 CAAAATTTGA AAAACTGTAA TTTATTTAGC TTTAGAGTAC TCTCGTGATA TGAGATTGCC
147101 AAATTAATAC TTTGGGTGCA TTTCTTTTCT CAAAGGACTT GCAAATTTAC AAAGAAGTGT
147161 TGAAGAAAAG CCACACATTG GCAGGTAATG TTTGCAAAAG ACAGATCTGA TGAAGAACAA
147221 TATTTTTAGA ATATACAAAG AATACTTAA ACTCAACAGT AAGAAAATAA CCTGATTTAA
147281 AGCAGGCCAA TGACCTGAAC ATCTGTTTAC CAAAGAAGAT ACACAGATGC AAGTATGCAT
147341 ATGAAAAGAT GCTTGACATC ATGTCTTAG GGAAGTCAA ATTAACAA AGCACCAGG GTTGCAAGA
147401 CTGCATACCT AGTAGAATGA CCAAAATTTA GAACACTGTC AGCACCAGG GTTGCAAGA
147461 TATGTAGCAA TAGTAAGTTG TTCATTACTG GTGAGAATGC AAAATGTGCA ATCACTTTGG
147521 AAGACAGTTT GGTGGTTTCT TACAAAAGTA ACCATACTTT TACCATAAGA TTCACCAATC
147581 ACACTCCTTA GTATTTATCC AAAGGAATTG AAAACTTATC TCCACACAAA AACCTGCACA
147641 TAGATGTTTA TAGCAGCTTT ATTCATAATT TATCCAAAAC TTGGAACAA GATGTCTTTC
147701 AGTAGGTAAG TGGATAACTG TGGTACTTCT GAATAATGGA ATGTTATTTA GAGTTAAAAA
147761 GAAATGCATT CACTTTGGGA GGCCGAAGTG GGTGGATTGC TTGAGGCCAG GAGTTTGAGA
147821 CCAGCCTGGT CAACATGGGA AAACCCCAAT TAGCCGGGCA TAGTGGCGTG AGCCTGTAAT
147881 CCCAGCTACT CGGGAGGCTG AGATATGAGA ATCGTTTGAA CCTGGGAGAT GGAGGTTGCA
147941 GTGAGCCAGT GCCACTGCAC TTCAGCCTGG GCAACAGAGC AAGACTCCTC TGTCTCAAAA
148001 AAAAAAATAA AAAAAAAG AAAAAGAA AGAAAAGAA AAAGAAAAG AAAAAAGAAA
148061 GAAACGATCA AGCCATGAAA ACACATGAAG GAAACTTAA TGTATGTTAC TAAAAAGCCA
148121 ACCTGAAAAG ACTGCATACT ATATGACTCC AACTGATGCA GGGCAAGCAA GCCAAAATT
148181 AGGGCTTAGC CCGGAAGAA TTCAGGGTG AAGTGGTGGT GTTAGCAACT TTTACTGAAG
148241 CAGCAGTGTA CAACAGCAGA ACAGGTACTG CTCCTTGCTG AGCAGGGCTA ACCCATAAGT
148301 AATGTGCCCA GAGTAGCAGC TCAGGGCAG TTCTGCAGTA ATATACCTGC TTTAGTTAA
148361 GTGCATGTTA AGGGGGATTA TGCAGAAATT TCTAGAAAAA GAGTGGTAAC TCGGAGTAG
148421 GTACAGAGGA AAGAAGTCGA TAATGTCCTG TTGTTGCCAT GGCAACGAAA AACTGACATG
148481 GCGCTGGTGG GCGTGTCTTA TGGAGAGGTG CTTTAACCTC GTCCCTGTTT CGGCTAGTCT
148541 TCAATCTGGT CCGGAGTAAA GTCCCTGCCT CCGGAGTTCA CTCCTGCTTC CTGCTTCACA
148601 ACTGTATGAC ACTCTAGAAA AGACAGTAAC TATGGACACA GTCAAAGAT TAGTTGATAG
148661 AAATTGGGTG ACAGGAAGTG TTGAAAAGGC AGAACACAGG ATTTTATAGG CAGTGAAACT
148721 TCTGTGATAC TATAATGGTG AATACATGAC ATTATACATT TGTCAAAACC CATAGAAAGC
148781 ACAACACCAA GAATAAACCC TAATGTAAAT TACAGACTTT CGTTGATAAT GACGTGTCAA
148841 TGTAAGTTCA ATTGTAATAA ATGTACTACT GTGGTGCTGG ATGTCTATGG TGGGGGGACA
148901 TTTTGTCTTC AATAGTTACA GTTGAAGTAA ATGTTTGTGT TTTCCACAAAT GCATATGTAG
148961 AAACCTCTAC ATTCAATGTG ATGGTCTTTG GAGGTGGGCT CTTTGGGTGA TAGTTAGGTT
149021 TAGTTGAGAT CCTAGCAGAT CGAGTCTTCA TGATGGGCAT GATGGGACTG GTCCCTTATA
149081 AGAAAAGACC AGAAAGCTAG CTCTCTCTTT GCCATGTGAA GACATAGCAG GAAGGTAGCC

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149141	ATCTGCAAGC	TAGGAAAGGG	CCTTCACAAA	GAATCAACTC	AGACCTCAGA	ACAGTGAGAG
149201	ATAAATTGTC	GTTGTTTAA	TCACTCAGGC	TGTGGTATTT	TGTTTCAGCA	GCCCAACCTA
149261	AGACTGTTAA	TTGGATTAGA	AATTTCCCTT	TGGGGATGGT	GTGTGGCGGG	GGGTGCGGGG
149321	AGTACCTTTG	TTAAGCTTTT	ATATCAATGA	GTTTGTAGGC	TTTTCTTTTT	TGGTCATTGA
149381	CTAGGACAGT	TTAAATAGTA	TGAGTGTGAA	GGAGATTGTT	GGTCATCTAT	TCGATGTCCC
149441	TTCTCTGTTT	TTTAATATGA	GAATCCTGA	TTTTTCAGCCA	ACTACCCCTG	AAAAAAAGCT
149501	AATCTTTCTG	ACTTCTTAAG	TGTGGCCATG	TACTAAATTC	TGGCTAATGC	AAGGCAAGCC
149561	AAAGGTTTTA	TGATAGGTTT	TAGGACACTA	GAGTAAAAGA	GAGCTGTTGC	ACACATGCTC
149621	TTCACCCTAC	TTTTGTGTCC	TTTTTTCCAT	CCTACAACCT	GGGTTGTGAG	TATGATGGCT
149681	GGAACCTTAG	TGGCTCTCTT	GGATCCCAGG	GGTAATTGAG	GGGTGGCTGG	AAGGAATCTG
149741	TGATTTTCTG	GAGTTTCCAT	ACACAACAA	GACCTGGATT	TTCTGGGCTT	CCCAGACTTC
149801	CACATCTAGA	CTTGCTTTAA	ATGGGAGAGA	AATAAACTTG	TTTCAGCCAC	TGTCATTTTG
149861	GGCTATTTTA	TAGAACTTAA	TCTAATCTTC	AAGGGTACAT	GAATTGCTTT	TCCTTAAAAA
149921	AAAAATCAGC	CATAAAATCA	TCTTCTTTTT	TCTTTTGTTT	CCCACATTAT	TTAGTTGGAG
149981	CTCTGTAACT	TTTTTTTTTT	TTTTTTTGA	GACAAGGTCT	TGCTCTGTCA	CTTAGGCTGG
150041	AATTCAGTGG	CATGACCATG	GCTCACTGCA	GCCTTGCCCT	CCTAGGCTCA	AGCAATCCTC
150101	GTCTCAGCCT	CCTGAGTAGC	TGAAACTAAG	GCACATGCCA	CCATGCCCAG	CTAATTTCTT
150161	TTCTTTTAGA	GATGGGAGCC	TTGCCCAGGC	TAGTCTCAA	CTCCTAGCCT	CAAGTGATCC
150221	TCCCATCTCA	GCCTCCCAA	GTGACAGGAT	TACAGGTGTG	AGCCACCATG	CCTGGCTGCT
150281	CTGTAAGTGT	CTGAATTTCA	TTTTGTATTT	ATCAGTCTGT	TTAGATTTTC	TTTCCCTTCT
150341	TGGGTACGTT	AGGCCATTGG	TTTCTTTTTA	AAGGTTTTCA	AATTTATTTG	CATCTAATTC
150401	TTCAAATTAC	TCTCAAAATT	ATTCCAGTAT	ATATTCTTTT	GTTCCATATT	TCTTCTGTAT
150461	TCTTTATTAA	AATAGCTAAT	GATTTATCTA	GCAGGACTTA	TATTCCTTCC	ATAACTTTCC
150521	TGCACCCCAA	TTAATCTCCA	ATTTTATATT	TCTTCTGGCC	TTCTTTATAG	TTTCCACAGG
150581	TTTATTTTAT	TCATTTTTTA	AACTTTTAT	TTAATTGTTT	ATTTTATTAT	CATTCTTTCT
150641	TATTCAGCAA	TCTAAGTGCT	TAGGGATATA	GAATTCCTC	TAAGCAGCAT	ATGCTAGGCT
150701	TTAACAATGT	TAGGGAGGCC	TCCCCTTCT	GGGGAAGACC	ACACTTACAT	TAACACAGGA
150761	CTGTGGGATG	CCAAGAGGTA	GAGAAGAGCT	TATGAATATC	CAGATTACAT	CTTCACTGAT
150821	CCTGACACAA	GGTGGGGTTC	CTCGGTTACC	CCTGGGTCC	TATTACCCAA	GTCGGGTCA
150881	GCATACCGAG	ACTACGGGTA	TATAGAACAA	GTGCAACTGG	CGATAATCCT	TCTGTTGGGG
150941	AGAAAAATCT	TTTTTTTCTA	TTTCTTTAG	GTTCTCCATC	TGTGGCCCTA	TCAAGTAGAC
151001	TAACAAAAGA	CAGATTGACA	AGACAGAAAC	AAAGCATGTG	CATTGTACAA	ACACAGGGGA
151061	GTAATGAGAT	GAATACTCAA	AAGAGGATTT	AGAACTTGGG	CTTATATAGC	ATTTTAAGAA
151121	AAGAATACAT	TTTTTAAGTG	ACAAGGAAGA	CGAAAAGGAC	TTTGAGTTTC	TAGTGCAGTA
151181	AATTGTGGGA	AGGCAACTTT	TTCTTTCCCT	TTTTTTTTTT	TTTTTTTTTT	AAAAAAAGAC
151241	TTCTCTGGTG	CTATGTCCAG	GCTGATAAGA	GTCTAAAGTC	TCTGGTGACT	AACCTTTGTT
151301	CTTCCCCGAG	TAAGAAGACA	CCTTCACAAT	TTTATATCCT	GCTTTTAGGC	AAACAGGGAG
151361	AGGGCAGAGG	TGTTTGTTTG	TTTTTAATCT	ATTTTTTTTC	TCAATTGTCT	TCAACTCAAA
151421	ATACTTCTTA	TGCCAAAGAT	GGCATATTCT	GCTACCCCTC	ACTTACTACT	TACAACCCAG
151481	CCTCTATCAT	CATAATTAGA	ACTTCTGACC	CTGGGGAACA	TGGGCAATAG	TTTGAACCTC
151541	TTTATATCTC	CCTTAGGCAG	AGATGGAGGC	CCAGCCATGC	CTCTGACATC	TAGACACAAC
151601	TGTTGCTTCA	TTTCTCCTAT	TCTCAGAGGT	GATGTTGTAG	GACTTCAACA	AATATCAGTA
151661	AACATTAAAT	TTTTTTTCC	TTGAGGCACA	GCATGATCTT	GGCTTACTGC	AGCTGCTGCA
151721	GGCTCAAGCA	ATTCTCCTGC	CTTGCCCTCA	CGAGTAGCTG	GGTTACAGGC	CCCTACCACC
151781	ATGCCCGGCT	AATTTTGTGA	TTTTTAGTAG	AGACAGGGTT	TCACCATGTT	GGCCAGGCTG
151841	GTGTTGAACT	CCTGACCTCA	AGTGATCCAC	CTGCCCTCAGC	CTCACATAGT	TCTGGGATTA
151901	CAGGCGTGAG	CCACCATGCC	TGGCCATCAA	TTTTTATGTC	AACTCTAAAT	TATAACATTT
151961	AGCAATTTTG	TGACTTTTTA	TGGTCATCAT	TAATGTTGTT	TATGTTTTAG	TTGTAGTCCT
152021	GTCATTACTC	ACTCGGGTAT	GGTAATTTGG	TCTTTTTCAA	AATGAAGTTA	AGGTCTATTT
152081	GCTCTTCTCT	GAATCATAAT	AAGAAGTACC	AACAGCCATT	TCAGCAATAA	CTATTTACTG
152141	AGATTTTAAA	ATATTTCAAG	GTAATTGGTC	CTAGCAGACT	GGAAAATACC	AAATCTTTT
152201	CCAGAACTGA	ATCCCCATC	AAAGTTCAAT	TTTACTCATA	ATTCCCTTTT	CATTTGAAGC
152261	ATCTCATTGT	AAGCCAGTCT	TAACCCTTCT	CTCACACTTT	GCTTGGCTGT	TTCTCAGGTA
152321	GAACTCAGTA	AGTCTGGTAG	CCTCCAGGAC	TGCCGCTTAG	ATTATTAAAC	AACATGTCAG

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152381	TGTTTGAAG	AGTCAATGTT	ATTTTGATTT	TTCTGTTTTG	TTTTGTTTTA	AATGCAGTTG
152441	GCGGATAATT	GCAGCTTTCT	TTCAATCCCT	ACATGAGTTC	AAATGGCAGC	AAACAACTA
152501	GGAGAACGCA	GACCTTCTGA	CTTGTTGGGT	CCCCTACTCA	TCACCTGAAG	ACCTTTGGAA
152561	ATCAAAGCCC	TGACCCATTA	AAGACGGATG	GAGACAGCAA	CATACGATCA	TCATATTAT
152621	CTTGCTTTGC	CCCAGTCCAG	GTAAACCATC	TGTGGTATTT	TTAGTTGCTA	AGTCCATATA
152681	TTCAACATAA	ATCAATTATA	TATCCACTAA	AATCTCAGCA	CTAGTCTAAC	TACTAAGGAA
152741	ATGACAGCGA	AGAAAACAGA	CCAAACGTCT	GCCCTTATGG	GATTTATATT	ATTTTCTCTG
152801	TGCTGGTTAA	ACCAAGGAGC	TTCTGCTCTT	TTCCTTAGTC	ACCTGGGGGA	GGCAGAAACA
152861	AAGGAGAATA	TTGATAAACC	TGGAAATAGG	GCCGGAGAGT	ATCAGAGAAG	GAAGCCTTCG
152921	GGAAAGTAAA	GATGTGGCAG	CCAGTATFCC	CGTTATAAAA	GGATACAAC	CCGGCCTCAT
152981	AGTCCAGAAA	AATTCCACAC	AGCAGGGGCT	GCTCATGCAG	ATGAAGGGAA	GTTGGGGGAG
153041	AAGTAAGTGC	TACATAGCCT	TTCTTTTTCG	ACAGCCTGAG	GGTCCAGAAT	CCAGACTGAG
153101	GCTCTTGCTT	CATGCCAGTG	CCCCCTGCA	CATTTTCCAT	ACAACTCCT	AAATCCCATC
153161	CGGTTCTTTC	GCCAACATCC	ACTTCAAAGT	AACGTCTTCC	TGAGGTGAAG	CCTTCACAAC
153221	CCAAGACACA	GGGGAAGGCA	GTAAATCTCC	TGGAAGATGT	GTCCTGATTC	TCCTGGGTGT
153281	ATCCACGAGT	CACCTGTCTC	CGATCCTCAG	AGAGAATTAG	TTCGTGATGA	GCTGTATCTG
153341	GATCCAGAGT	CACACTAACT	GCAAAACAAA	ACAAAACAAA	CAAAAATAAT	TTTGTGTCTG
153401	TGAAGAACAC	AGGTTATTTT	ATTTTATTTT	ATTTTGAAGT	GGAGTGTTCG	TGTCACCCAG
153461	GCTGGAGTGC	ACTGGCACTA	TCTCAACTCA	CTGCAACCTC	CACCTCCTGG	ATTCAGGCAA
153521	TTCTCCTGCC	TCAGCCTCCG	GAGTAACTGC	GAATACAGGT	GCGCACCACC	ACAAGTGGCT
153581	AATTTTTTTA	AATTTTCTGT	AGAGATGGGG	TTTCGCCATG	TTGGCCAGGC	TGGTCTCAAA
153641	CTCCTGACCT	GAAGTGTTC	ACCCACCTCG	GCCTCCCAA	GTGCTGGATT	ACACAGGTGT
153701	GAGCCACCAT	GCCCAGCCAC	AAGTTATTTT	CAATAAAACC	AGCCTGTGTT	CAAAACCAAC
153761	TATGTCTTCT	TATAAACTGG	GTGAGCTTAG	GCAAATCATT	TAACTTTCTG	AGCCTCAGTT
153821	TGTTAACTAT	AAAGTGGAAA	TTACCGTATT	TGTTGCAGAG	AATGGTGGGT	AGGATTGAAT
153881	AAGCTTATGT	TTGCTTAATG	CTTGCTAATA	TTCTGTGTAC	ATGGTAACCA	CCTAATAAGT
153941	GGTAGTTGTT	GGGGTGATCA	GGCCCAACAC	CAGGCCGTGG	GGGCTACAAA	TCCGGCGGGG
154001	GTCAAAGGAA	TGAGAAAAGA	CAAGTTAAGA	GTGCATAAAG	TGGGTCCAGG	GTGCCAGCAC
154061	TAGATTGGAG	GCTGCAAAGG	CCCTAAGCTC	TGGGAGCCCA	CATATTTTAT	TGGTGATCAA
154121	ACAAAGAAGC	AGGTGGTGAG	GACGTGAGGG	TAAACAGGTG	AGGGCATGAG	GACATGGGGG
154181	TAGAAAGGTA	GTGGTGCAAT	AAGCGTAGCT	GTGACAGTTT	AGCATTTTCT	TTGACACATG
154241	TAGAATATAC	TCTGCTGCTT	GAGATAGTAG	AGGACACGTT	TATGAGTGAA	AAGCAAGGAA
154301	CCAACAAGTC	TGTGCACTTT	CCAGAGGCTA	TGAGGGGTTT	TATGCCCTGA	GCCCTGGGTT
154361	CCATCCAAGC	CACAAGGGGT	TTTATGCCCT	AGGCTTAGAT	TTGTGGTGCG	GCAGGGCAGC
154421	CTTCCACCAT	TTGGCACAGA	GCTTGGTGTT	CCAAAGGCCA	CGAGGGGTTT	TGGACCCTGG
154481	ACCCCGGACA	TCTTCCAAGA	CTCTTTTACA	TTATGACAGA	CAAGCCAGTC	CTGCTTCAGC
154541	TCTTCTAACA	ACATGTAGTA	ATAATGATAT	CATCAACATC	ATCTTCGTCT	TAATTATTCA
154601	AGGATGCCAA	GGTACAGAAC	TAACCTGTTA	ATATGGTTAC	CATCCTGTCC	AAAGTCTTTC
154661	TCCCATGCAG	GACTTCCAGG	AATCATGAGA	CAGTTGAGCA	GAAAGATACC	TTTTCCCTTC
154721	TCTACTGAAT	AACCACCAAC	ATTGAGAATC	AGAGAGGGAA	AATGACTCAG	CTAATGTCTT
154781	AGCTTGTTAT	TGGAAGACCC	AGGTCTCATG	ACACATGCCT	AGTCCCATGA	CTTTTAATTG
154841	TAAGCTCTTC	TCTTTCCCTC	CAGATAATGT	TCCATAAGCA	TTAGTATGAG	ATAATAATAC
154901	ACTGAGGACC	AATATACATG	AAAAATATCA	GACTAGAATC	AAACAAGACA	GAAAAAAGAT
154961	CTGATAACCT	AAAGTGAGAT	ACTGAACAGT	ATGCAGTTTT	AAAAATAAAA	AATGGTAATA
155021	GGATGTTCTA	ACAAGAGAGT	TAAGAAACCA	CTGTGCTACT	GAGTTAAATG	TTGATCAGTT
155081	GGTCTGTGAC	AATTAAGGAA	TTCAAGTATT	CAGAAACACT	TCCTGTGCTG	GATGCTCTCT
155141	GTTTGTCTTT	CCAAATAATC	CCTCACTTTT	CCCTGTCTTG	CTCTGTGCCC	AGGAAGGCTG
155201	ACATGGACAG	ATTAACCAGG	CTTTCCGCCC	TCTGGCTTGG	TTCAGCCAAT	GGGAAGCACC
155261	AGAGGAGACC	ATAGGGCACA	AAGAAGCAGC	CTTGGGAGTA	TTCAGTACCC	CAGTCCCACG
155321	CTATGATTTG	GAGGGTCTGC	ATTCTCTGTC	CTCTGGGCAC	ACTCTAGTAT	AGTTACAGCT
155381	CCCTACACCT	GCCACTTGAG	GCCCAGAGGA	GGTGATGGCT	CTCTAAGTGT	TCCTAGTTCT
155441	GGGTGCTTCC	TGTTCTTGT	GGATTTCCTA	ACTCCTCACC	TTTGTAAATA	CCCTCCTTTT
155501	TCAAACTCTA	TTCAGTTAGC	TTTTATCAGC	CTGACTCACA	GAAGTTTGGG	GTTTCAATTC
155561	ATATTACCTG	AATGACCCAG	GAAAACCCAT	GTTGAGAAAT	TAAATGTTT	ACGGGGTGGT

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155621	AATACCACTT	AAGAGAAAAA	ATATCAATTG	GATTTTTTAA	ATTCCACCTA	TCTATTGGTG
155681	TGACACATCA	ACAAAAACAT	ATAGAAAGAT	TGGAAGCTAA	AAGATAGATA	ATATAGTCAT
155741	ATACTGTTAT	AGTATTATAT	CAAAAAGATAT	TAAGTCAGAG	CATTATTAAAG	AATGGAAGAA
155801	GGGCCAGGTG	TGGTGGCTCA	TGCCTGTAAAT	CCCAGCACTT	TGGGAGGCCA	AGGCAGGCGG
155861	ATCACTTGAA	GCCAGGAGTT	CAAGACCAGC	CTGCCCAACA	TGGCAAAACC	CTGGCTCTAC
155921	CAAAAATACA	ACAATTAGCT	GGGCATTGTG	GCACATGCCT	GTAATCCCAG	CTACTTGGGA
155981	GGCTGAAGCA	CAAGAATCAC	TTGAACCGGG	GAGGCAGAGG	TTGCAGTGAG	CTGAGATTTC
156041	GCCACTACAC	TACAGCCTGG	GTGACAGAGA	GAGATTCTGT	CTCAAAAAAA	AAAAAAAAGA
156101	AAGAATGAAA	GGAGTCACCT	AAAAAAGATA	ACACAATTTT	AAACATAAAT	GTACTACATT
156161	ATTAGTGAAT	TCATGTTTAG	AATTGTGTTA	ATATACAAAG	CAAAAATTGT	AGAATTATAG
156221	GAGAAATGGA	CAAACTTACA	ATCATCATGG	GATGTTTTAA	CATTCTTCTT	TCCATAATTG
156281	ATAGATCAGG	CAGACCAAAA	GAAAGAAAAA	AGGGAAGATA	CGGAAGGTCT	GAACAATCTA
156341	AGAAGCGCAA	TCTCATAGTC	AATACATAAA	GCTCAGCAAT	TGTTTAATAA	TAGTAAGCAG
156401	AGAATATGCA	GTTTTCTCAG	GTATAGATGG	AACATGCACT	AACTGAGTAA	ATACTAGGCA
156461	GAAAACAGTC	TGAACAAGTT	TCAATAAATC	TGTATTACAC	AGATCATTTT	CTCTAGCCTC
156521	AATATAAGAT	TATAAACCAA	TAATAAAAAG	ATGACTAAAA	AGATTCTAAA	TATTAGGAAA
156581	TGTAAACTAC	TAATAAGTCA	TTAGAAGATG	TATAGAATGG	AACAATAATA	AAATGTTATT
156641	TATAAAAATA	TACAATGAAG	CTAAAGCAGA	ATTTTAAGGA	AAATTTGTAG	GCTTTAAATG
156701	CTTATCTTAG	AAAAATTAAA	AAGCTGAACA	TTAATGAGCC	AAGCATCTAA	TTTAAATTTT
156761	AAAAAGAACA	TAGAAAGCCA	AATATAATTT	TTTAAAAAGA	AAAAATAGAT	ATTAACAAT
156821	ATAACAGTGA	AGTTAAAGAA	AACAAGAATG	CAATAAAGAG	GAAAAACAAA	CAAAAAAANA
156881	AGTAGCTTCT	TTTAAAGAAA	ATTTAATAAA	ATAGACATAC	CTCCAATGAG	ATTTATCAAA
156941	GTAAGACAGA	AGGCACAAAT	GGAATGAATA	CAGAAACTTT	TTAAATATTA	CAGAACTTTA
157001	TAATAAATCT	TATGCTACTA	ATAAAATTGA	AAGTACTGAT	AAAATTATTA	CTTCCTAGAA
157061	AAAATATTTT	TGAGTAAAC	TCACTCAAAA	AACAAATAAA	GCATGGGCAG	ACCTAACATT
157121	AAAGAAATGA	AATCACTACT	TTAAATTTTA	CCGACAGATA	ATAAAACGTG	CATCTTTATC
157181	AAGCAAAAAT	GGAACCTGTC	AGTTTTATAG	GAAATTTAGA	AGTCAAGGCA	TGAGTAATGC
157241	CAATCTCATA	CCAAATCCTA	CAAAGAAATAG	AAAATTATGG	CTCCCCTTAA	TAGACATAGA
157301	TATAGAACTC	CTGCACAAAA	TAATATAAAT	AACAAACCAA	ATTTTATATT	TGCAACTATA
157361	CATATTATAT	GTGTATGTAT	TATATATGTT	AACATATACA	TATATAATAT	GTATAGCATA
157421	TGTTCTACAT	ATTATATATG	TATAGTGTAT	GTATTTTACA	ATATATAAAT	GAAAACCCAA
157481	TCTTTAATAT	ATTCATCTAG	ATTGTCATAT	ATGACATATA	TAATACATTA	CATCAAAAAT
157541	GTGTACAATA	ATCAGGCCAG	GCACAGTGAC	TCATGCCTGT	AATCCCAGCA	CGTTGGGAGG
157601	CTGAGGCGGG	TCAATCACTT	GAGTCCAAGA	GTTTGAGACC	AGCCTGGTCA	ATATGGCCAA
157661	ATTCCATCTC	TACAAAAAAT	ATGAAAAAAT	ATCCAGGCAT	TGTGGTGCAC	ACCAATAGTC
157721	CCAGCTACTC	GGGAAGCTGA	GGTGAGAGGA	TCACTTAAGC	CTGGGAGGTG	GAGATTGCAG
157781	TGAGTCGAGA	TTGCGCCAGT	GCACTCCAGC	CTGGGTGGCA	AAGGGAGACC	CTGTCTCAAA
157841	AAAAAATTAA	AAAATTAGCC	AGGTATGGTG	GCCTGTTTCT	GTAGTCCAG	CAACTGGGGA
157901	GGCTGAGGTG	AGAAGATCAC	TTTAGCTCAG	GTGGTGGAGC	CATGATCGCA	CCACTGTACC
157961	ACTCGGCTTG	GGCAACAGAG	TGAGAGCCTG	TCTCGAAAAA	ACAAATATAT	ACACACAGTA
158021	ATCAATATAT	ATATTATATG	TACCAATCAA	TGCTTCACTT	TTATATATAA	TATAGATTAC
158081	ATCTTATTAG	ATATATAGTA	TTCCTTCTCC	ATAGATAGAT	AGATACAGAT	ATAGACATAG
158141	TATCCTCTAT	CCATATTAGA	GAGAGGATAC	TATATATATC	TATAGCATAT	AGAGATGCTG
158201	TCTCAAAAAA	ATTTAAACAT	CAGCCAGATG	TGGTGGCCCA	TGCCTGTAGT	CCCAGCTACT
158261	GGGGAGGCTG	AAATGAGAGG	ATTGCCATTG	ATCCTCTCAT	TGGTTGAGCC	ATAATCGCAC
158321	TACTGCACCA	CTCAGCCTGG	GAGACAGAGG	GAGACCTGAG	GTGGAAGGAT	ATAGATATAG
158381	ATATATAAAT	AAATATGTAT	AGAGAGAATA	TAATATATGT	GTGTATGTGT	ATATATATAT
158441	ATTATGAAGA	CACTGGGAGA	GAATACTATA	TATATATGTG	TGTGTGTATA	TATATATTAT
158501	GAAGACACTG	GTGGGATGGT	TTCAATTACCA	ATTGGACCAA	GAGTCCAGGT	ATGGAGCCAA
158561	CATGCAATGT	TGTTGTTGAC	TGAGCTGGCA	GAGCACTGGT	CATAGTTACG	GGAAAAGAAG
158621	GTCTCCAATG	AGACATACTT	AACAAAATAT	ATGAACTTGC	CATATACGTG	GAGAGTTCTG
158681	GTGTGTATAT	AGCCTTCTCT	CACCAACCTA	GCAATTGTCT	TCATCATCAT	TATAATGCTA
158741	TCAGAGCAAA	GATGACAGCT	AAATTTTTTT	GTCCCTTTCT	TCTTCTTTCT	CTTCCTTCCC
158801	CTCCCCCACC	TCTTTCTCTT	CCTCCTCCTC	CTTCATCTCT	CTTCTTTTTT	TTTTTGAGAT

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158861	GGAGTCTTAC	TCTGTCGCTC	AAGCTGGAGT	GCAGTGGCAC	AATCTCAGCT	CACTGCAACC
158921	TCTGCCTTCT	GGGTTCAGC	AATTCTGCCT	AAGCCTCCAG	AGTAGCTAGG	ACTGCAAGTG
158981	CACACCACCA	CACCTGGCTA	ATTTTTGTAT	TTTTAGTAGA	GATAGGGTTT	CACAATGCTG
159041	GCCAGGCTGG	TCTCAAACCTC	CTGCCCTCAA	GTGATCCTCC	TGCCTCGGCC	TCCCAATGTG
159101	CTGGGATTAC	AGGCGTAAGC	CACTGTACCC	GGCCTCCTCC	TTAATAGAC	AGGGTCTAGC
159161	TCTGTTGCCC	AGGCTGGGTA	CAGTGGCGTG	ATCATAGCTT	ACTGCAGCCT	CGAACTCCTG
159221	GGCTCAGGAG	ATCCTCCTGC	CCTAGTCTCC	CCAGTAGCTG	GAACACAGG	CATAGCACAC
159281	GGGGCTAATA	AAATTAATTA	GGTGATAAAA	TTCAGTGCCC	ACTGATGACT	AAGCTCTTTG
159341	GACATAAAAG	ACACAGACCT	TGAAGGAAAA	TGTGTCTACT	TAATTTTGAA	ACCCTATTTA
159401	TCAAAAAACA	GGATGAAAAT	GCAAAATGCC	ATCCACATGC	CAGAAGATAT	CAGCTATAAT
159461	AAGTTCCCAT	AAATCAATAA	GGAAAAGAAC	CCAATAAAAA	TTATTAAACC	ACAGTAAATC
159521	ATGGGTAAAT	CACAGAGGCC	TGAAGGGCTA	ATGGACATAC	AAAAAGAATC	TCAATCTCAC
159581	TAGTGAAATC	AGAAAAGCAC	AAATTAAGTA	CACAATTAGG	TACCATTTTA	AATCTGTAAG
159641	ACTGTCAAAA	TCATAAATTA	TATAAGTAA	GACTCAGGGA	GTTTTGGAGG	AGTGAGAGCT
159701	CTTATATTGC	TTGTGGGGTA	GAATTGGAAC	AATTTCAAGA	TCTGTAGTAT	CTGGTAAAT
159761	TATGATATGC	ATCCCTCACA	CCAGCATGTC	ACTCCAAGGT	ATCTCCCTGG	AGGGAACATT
159821	TACGGGACAC	AAGGAAGCAT	GGATAAGAAT	GTTACAGTA	GTATTGTCTG	CAACAGCAAC
159881	AAGAACAAAA	AAACCCAACT	ACACACAACCT	TCAATGCCCA	GTCCACAAGG	CAATGGATTA
159941	AATAAACCTC	AGGCCGGAGA	TGGTGGTTCA	TGCCTGTAAT	CCCAACACTT	TAGAAGGCCG
160001	AGGCGAGAGG	ACTGCTTGAG	CCCAGGAGTT	CAAGACCAGC	CTGAACAAAA	TAAAGAGATA
160061	GTGTTTCTAC	AAAAAATTTT	TAAAAAATTA	GCCAGACGTG	GCAGTGCTTG	CCTGTGGTCC
160121	CAGCTACTGG	GGAAGCTGAC	GTGGGAGGAT	TGCTTAAGCC	CAGGAATTTA	AGGCTGCAGG
160181	GAGCCATGAT	GGGGCCATTG	CACTCCAGCC	TGGGTGACAG	AGTGAGACCC	TGTCTAAAG
160241	AGATAAGTAA	ATAACAACCTT	TGCATTTTCT	GCCACATTGC	AAAATGGTGA	GAGAGTGGTT
160301	TCTAGACTCT	AGACTCTTTC	TATGACTACC	TTCTAGTTAT	GAGATCCTAC	AACACTCACC
160361	TAACCTCTCT	GTGTCATATT	TCCTCCTCTA	TAAAGCAAAA	ATGCCCCATA	TAGAGAGGAC
160421	TGTGATATAA	AACAAGAACC	AAGAAAAGTA	AAGCTTTTCT	AATCTGTCAC	AGACTAAAGA
160481	GTGCTCAGTA	TATGTGAGTC	ATTATTCCTG	GTGCTGGTAG	GAGTGTATGT	TACAACCTTG
160541	AGTCAAGTAA	TATGGTACCA	TATATTAAGA	TTAACAACAA	CCTCGGCAAT	CCCAGTTTGG
160601	GGTATGTTCC	CAAAAGAAAT	GAAAGCACCA	GGATATAAGG	ATGCATGGAC	TAGAAAGTTA
160661	TTGTAGCAAC	ATTGTAATAA	CTAAGTTCTA	AAAACAGCCT	GAAGCTCCAT	CAGTAGGGAT
160721	ATGGTTACAT	ATATTTATTA	TATTCTTATG	GAATATTAGA	CATAAAAAGT	AACGAGTAAC
160781	ATAGAAGAGA	CAGTGTATAT	ATGTTACGTT	TGTACAAACT	TAGGGAAAGA	TATAGATCAC
160841	CCTACCTAGA	GAAGTCAGAT	TGGAGAGGGG	TGGGAAAAAC	CTTGAACCTT	CTCCTTATAT
160901	CCTTTATATT	GTTTGACTGA	TTAAAATGTA	TTTGTTCAT	CTGCTTGAAG	GCAATGTAAA
160961	ATAAAATAAA	CATACATTTA	AAAATAAAAA	TAAAATTTAT	TCCTATCACT	TTTGTAATAA
161021	AGCTGGGCAC	AGTGACTAAC	ACTTGTATC	CTAGCACTTT	GGGAGGCAGA	GACAGGCAGA
161081	TCACCTGAGG	TCAGGGGTTT	GAGACCAGCC	TGGCCAACAT	TGTGAAACCC	CATCTCTACT
161141	AAAAATACAA	AAATCAGCCA	GGCATAGTGG	TGCGTACCTG	TAATCCCACG	CTACCCGGGA
161201	GGCTGAGGCG	CTGGAACCCA	GGAGGCAGAG	GCTGCAGTGA	GCTGAGATTG	CGGCACTGCA
161261	AGCCAGCCTG	GGTAACAGCG	AGACTCCATC	TCAAAAAAAA	ATTTGAAAAA	AGAAAAATTT
161321	TAATAAACAG	TGTTTAAGAG	GGGAGAAATA	TTAGTTAA	AGATAAGCCC	ATTTAAGAAA
161381	TAGTTTCACT	TGACCCGGAA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCAC	CACTGCACTC
161441	CAGCCTGGGC	GACAGAGCGA	GACTCTGTCT	CAAAAAAATA	AAAAAAGAAA	GAAAGAAAGA
161501	AAGAAATAGT	TTCACCTGAA	CCATATTATG	ATTCCTTCTG	TAAAAGATGA	GAGTAGGCAA
161561	ATTGACTCAG	TGAAATCCCA	GCAAACTTA	CACAAAGTCT	TGTTCTTCCT	TCCTGTCATC
161621	TGTATAGGAT	GAAATACAGA	GTGCTTTTGG	GTTTTGTTGT	TGTTTGTGTG	TGTGTATTTG
161681	AGGGGAACAC	AGGTCTATAA	TTCTTTTCT	GAAATCCCTG	GAACAAAATG	GGCTTTGCCA
161741	TTCAAATTAG	TTTAGAAGTT	ATAAAGGCAA	AAAAATGCAT	ATACTCTAAA	GTTCAACCCC
161801	ATCATGGCCT	AAGGCAGAGC	CCTGTAATCA	AATTCATCAA	TATATCTGCA	GCAAAACATT
161861	TATTCAAATT	AAGTGGGATA	AATAAAGACT	TTTAAATAGT	CTCATCTCAG	TGCCGTTTCA
161921	GGTTGGCCAC	TGTGGAAGAC	AGACTCAAGG	GTGGCCTTCT	ATGATTCTCTG	CCTCTTGGTG
161981	TTCACACCCCT	CGTAAAATTC	CTTGCTTTTG	AGTGTGAGCA	GGGCTTATGA	ATTGCTTCTG
162041	ACCAATAGGA	TATGGCAAAG	ATGATGGGAT	ATAATTTCTA	TGATTACGTT	TCATTATGTA

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162101	AGACTCCATC	TTGCTGGCAG	ATTTTCTCTA	AAGAGTCTGT	CTCCTGAGCT	CTCTCTGAAG
162161	AAATAACTGG	CCATGTTAGA	AGCCCATGTG	CAAAGAGCTG	AGGGGTGGCC	TGTAGAAGCT
162221	GTGGGCAACC	TCCAGCCAAC	AGCCAGAAAT	AACCAGGGCC	AAAGTCCTGC	AACCATCAGG
162281	AAAGAAATTC	TGCCTGCTAT	CTCAGTGAGC	TTGGAAGTGG	ATTCTTCCTT	AGCCTAGCCT
162341	CCAGATAAGA	ACACAGCCTG	ACCAACACCT	TAAGTGCAGC	CTTATCAGAC	CCTAAGCAGC
162401	AGGCCCAACT	AAGCTGTGCC	CAGATTCTCT	AACCACAAAA	ATTGAGATAA	CATATCAGTG
162361	TTGTATTAAG	GTTCTAAATT	ATGGTAATTT	GTTTGTACTA	ATAGATAACT	AATATAACCA
162421	CCAAATCATT	TCAGGTTAGG	CCAGATTTTT	GTAGCCAAAT	GAATCATGAT	AAAACTTTCC
162481	ATTTTCAGGG	GTTTTTTTGA	TTTTGTACTT	ACGGATACAA	ATTTGTGAAA	GTATAGTCAG
162541	CACTGATTTA	AAAAATCAAG	GGAGCAGGAA	ACTCAGTAAA	TGGTTCCTAA	ATTTTGGAAAT
162601	CTGTAAATTG	GTTGTAAACAT	TTGTCATCTG	TGTTATCTAA	GTCAAGTTCC	TAAAAATATG
162661	GAATGATAGG	TTATCATACT	CACCTACTTT	TCTTGCATTG	CTCTAAGAGT	TGGCTGAGCT
162721	ATTGATAATA	AACACTATGA	TCAGATCTAA	TACCATGATG	TGCTATTATG	ATCATGTGTC
162781	AGTCACAGGG	CTAAGCACTT	TGTACATGTT	GATGCATTTA	ATTTTGATGA	TAACTCAATG
162841	AAGTAGGAGC	TGTTAATATT	TTCATTTTTT	AGAGGGGGAA	ACCAAGTCAC	TTGGAGTAAC
162901	ATGGCTAATA	AGTGAAAGAA	TAAGAATTTG	AAAGGTTTGC	ACAGATAACC	AGAATGCAAT
162961	GCTCATCACA	TTCAGTGAGC	AGTGAATCAT	ACTAACTAGA	GAAAGTATGA	AAGCTCTACT
163021	GAAATTAAC	AAACAACCTC	TCTGGCTGTG	AGCCTGCCAA	GGGACAGGTG	GTAAACTTGG
163081	TTACTGCATA	AGGCCCTTTC	TATCCACAGT	ATTCAGGAAT	TCTTTAGTGA	ACATACCTTG
163141	ATGACTCCTT	AACATTTTCT	TCACATCGAA	GTAAAGCTTG	GAAACATTGC	ACATAGTATG
163201	AAGTTCCAAG	GAGACAGCCT	CTGATGTTTC	CAGCTTCACA	GCCCAACTCC	TAGAATAAGC
163261	AGAGGCGAGA	GATTTCTTCA	GAGGTGCATT	CCATTCAATT	CTATATACGC	ACACCCCTCC
163321	CCTCCTGCAT	TCAAACAGGA	CTTACCTGCT	CAAAGTGTC	TTCACATTCT	ATAAAGAAAC
163381	AAAAAGAAAA	GGTGAGCATG	GGAACATCGG	TATTTTCATG	GGCTTGTCAT	GCAGGGCTAT
163441	TCTTCTTTGC	TTTACCCGAA	GAAGTAAAGA	GAGTTACCCT	AGTCTTAGTC	TTAGATATTG
163501	ATGGATACTC	AAACAAAGTA	ATTCCCACCA	GTCTTAGGTA	TTGATGGATA	CCCAGATGGA
163561	ATAATTCCTA	CCAGCTTCTG	GGAGATTGAG	CATGGCAGGA	TGTTTATCAA	CATTTGCATC
163621	TATTCTCATC	CTTGCTGAAG	TCTGAGGGCC	AGGAGCTTTG	TCCATGCTCC	CTCTGTAAGG
163681	ACTAGCTTTT	GGTGATCGGA	TTTCTTTCAC	AGTGAGCCCA	GATTAGAGAA	CACCTATCAT
163741	AAAGGTCCTT	AGTGGTGAAT	CTGTGCACAG	CCCTGAGACT	GGGCCACTGC	CACCTAAGATG
163801	GTGGTAGCAG	GTATCACACA	GTGGTAAAGC	AATCATGCTA	TACACTCAGC	CTTACAGTAT
163861	AGTCACCAAT	CCTGTTAGTT	AGAACCAGAA	TTAATGGCTC	CAGATGTTTA	TCTTCTTACA
163921	GATAAAGCTG	TAGATTGTAC	CATAACAGCT	CTGGAGCAAG	GGTTCTACAA	GCAAATCAGG
163981	GAAAAGGTTA	TCACTCATTT	TGGCTGCCCC	ACTTCATCAC	CCATCAGTCA	CCTAGTGGAG
164041	TATTTTCAGGA	GAGAGTCAAC	AACCACGGTT	CTCTGCACAT	GGGCCAAGGA	GGCAAACAGT
164101	GGTAAATGTT	ATCCCGTGGT	TTCATTTGGC	CAAGCTGTGT	TCCCTCAGAA	GTTTTATTTT
164161	CTAATTGACA	TAAAGGTACC	CTATAAATTA	GTGAAGGCCA	GCCTGATGGC	ACTGATGTAC
164221	ATCTAAAAGA	AACATTACTT	TATCTTCCCA	TGCTTCCTTA	CCATTCTCCT	TTAATAGCAC
164281	TATAACATAC	CTTTTTTCCC	TACTCCAAGT	ACACAGCCTC	ACCTGCAGCA	ATTTCTGGGC
164341	TGAGCCCTGA	CATTTTTTCCT	CCAGTTCCAG	GATGTGGCTC	TTGAGTTTCT	TGCTCTTCAG
164401	CCCCAGACCA	GCCTCATAGT	CCCTCAGTCT	ACTCAGAGTC	TGTTGTTCTT	CTTTCTCCAG
164461	CCTCCAGAGA	TAAGACTTCT	CTTCCTCATG	TAGGAAACAC	TGGAGATTCT	TAAAGTCAGA
164521	CCGGATTTTT	TGTCTCTGAA	TCTGTACCTT	CTCCTGGAGT	CAAGAAAGTA	TGGTCAAAAG
164581	GTGGAAGTAA	ACCAAATGTC	CATCTATGGA	TGAATGGATA	AACAAGAATG	AAAGTCTGAC
164641	ACACGCTACT	ACATGACAAG	CCTTGAAGAC	ATTCAAGCAA	AATAAGCCAG	AAACAAAAGG
164701	GCAAATATTG	TAAGACTTTG	CTTATACAAG	GCATCTGGAG	TAGTTAAGTT	CATAGAGACA
164761	GAAAGTAAAA	TAGTGGTTAC	AAGGTGTTGG	CAAGACCAGA	AAATGGACAG	TTATTGTTTA
164821	ATGGGTAGTG	AGTTTCAGTT	TAGAAGATGA	AAGATGAAAC	TGAGTTGCAG	TTTGGAGATG
164881	GGAATGGTGA	TGGTTGCACA	ACAATGTAAC	AATGTAAAAG	CACCTAATTC	TACTGAACTA
164941	TATACTTAAA	AGTGGTTAAA	TGCTTAAAGT	TTATATATAT	TTTCACACAA	ACACACACAC
165001	ACACACAATC	AGCCACTGGG	ACATTATTTT	CTCATGAGTC	ACTGAAGCTG	GAAGAATGTC
165061	CCCAGTTTCC	TGCTGCAGAG	TCATGTGTGG	GAGGCAGGCA	CTCAGATGTG	GAAGAGGTTG
165121	CCTCAGATTC	CTTATAGTCA	CCCAATTAAT	TTTCTTGTTT	TTCAGCCAAG	ACACAGGAGA
165181	AAGCTGGGTT	AGGAGTGCTA	GATAATTTAA	TTGTGAAACT	AGGGCCAAGT	TCAAACACTT

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165241	TATCAGTTAC	AAGGATAAAA	AGAGGTTTTT	ACTTATGATT	TAAGAAGTTA	GATTTCTGAG
165301	TTGGAGCGAT	TTTCTTGAAG	TAAAAGCTTA	TAATGAACAT	CACCCAGACT	GGATTTTAAG
165361	ACAACCAGGC	TGGTAAGAGG	GTCCATAATT	CTTGGCAGGG	GGAGCTTTGA	GTGTGACAGG
165421	CATTTATTAT	GGTTAACTGA	GAAATACTGT	TCTACTACCC	TAGGGTCATC	TTAAGCATTTC
165481	CTATGTGTAA	GACTGACAGA	AATCAAGTGA	AACTCTCATC	TGAGGAGATG	TAAAGTTGCA
165541	ATTTCCATTA	GTGCTGTCTA	AATTAATGCA	GTGGGAGTGT	GTATTTCAGGG	CAATTTGAAT
165601	CTATGTTCTT	GGATTGCAGT	CTTCAAACCT	GGCCCAAATA	AACTCTCTAC	TTATCTTAAA
165661	AAAATAAAAA	TTAAAAAATA	AAAATAAATT	CATACAGTGT	TTTGATGACT	ATGATATAGA
165721	AGAAGGGTCT	TTGACTTAGG	ATGAGGTGGA	ATTTTTGTGT	AGGAGACAGG	TGCAGCTTTA
165781	ACTCTTGTAT	AGACGGGTTT	TCATATATGT	TAGTTACAAT	CAAGGCTTTC	CCCATTGCCC
165841	AAGATCCTAG	AAATGGGGGA	AGTAAGAGTG	TACTCAGGAG	CTCAAGAGCA	ACATCCACAA
165901	ACAAAGATCA	GGGTAGAGGT	TAGAGAGGAC	TCCTGAAAGA	GAGAAAATTG	GTAATCAGCT
165961	TGTGGGATTT	TACTGCAAGC	TAGTGAATTA	TATAAATATA	AAGATTGGTG	CAAAAGTAAT
166021	TGTGGTTTTT	GCCTTTACTT	TAATGGCAAA	GACCGCAATT	ACTTTTGCAC	AAACCTAAAT
166081	ATTTCCATAA	AAGAATGTGG	CTCTGATAAT	GTGGAGGTTA	GTCAGCCACG	GAAATAATCT
166141	GAAAGTTTGT	AGTTGCAAGT	GTGTAGGTTG	TTGCATTACT	TGTGATGTAC	TTATAAATCA
166201	AGTATAGGCC	GGGTGCAGTG	GCTCACGCCT	GTAATCCCAG	CACTTTGGGA	GGCTGAGGTG
166261	GGTGAATCAC	GAGGTCAGGA	GATCAAGACC	ATCCTGGCCA	ACATGGTGAA	ACCCCGTCTC
166321	TACTAAAATA	CAAAAAATTA	GCCAGGCATG	GTAGCACATG	CCTGTAATCC	CAGCTACTCA
166381	AGAGGCTGAG	GCAGGGGAAT	TGCTTGAACC	CGGGAGGTGG	ACATTGCAGT	GAGCTGAGAT
166441	CGCACCACCTA	CACTCCAGCA	AGACTCCATC	TCAAAAAATA	GTAATAATTT	AAAAATAAAT
166501	AAATAAATAA	AGTATATTTT	TTTCATCAGC	TTCATGAGCT	TGAGTAGTAT	GAATTTCAAT
166561	CTGGAGTGAT	CCTGTTTTCT	AAGTGTTCAC	AAAGCTTGGT	TTCTGTACCT	GTAAAGTTGA
166621	GAGCCAGATG	CTCCACTGTG	GTAAAAGTGC	CAGGGTAATG	AGTTGAGGCC	TGCAAACCAG
166681	GTTTATTTTG	AGGTATTTAA	AGTTTGAGAC	CCACTCGATG	CTTTTTCTAG	GTAAATAGTC
166741	ATACTAATTC	TGCTTCTTCT	GACTGAAGTA	TCAGGAATCC	CAGCCAACTA	CAGTTTAAAG
166801	ATGGAAAGAT	TGGTGCTAAA	TACTCATGGA	TGTAAACCTG	GAACCAGGGG	CATAAGTACA
166861	AATAATGGTT	TCTTCTTGG	GTTTCATTTT	TTCAATCTGG	TTTAGTGAGA	ATAAATCCTC
166921	ATTGTGCTTT	TCCTCAATCA	TCCCTATGCT	CTAAGCTCTA	GAATGGAAAA	TAGCTTGAGA
166981	TCAATGAAGT	CAGATTCTTA	CTTTCCATTT	AGTTATTTCG	ATTGCTGTGG	ACAGCTTCTG
167041	CTCCGTACAT	CTGTCTTCAA	GTTGCTTCAG	TTTTGTGACA	GCTTTCTGGA	GCTTTTCTTG
167101	AAGGAAAAAT	TTGATAAGTG	AAGCCTATTC	AATTTGACTC	TTCAATAGGG	ACCTAGGGGG
167161	AATCCCAATC	TTCTAAGATA	TATTTGAATA	ATAGTGAATA	TTTATAGAGT	CCTCATTTGTT
167221	TTTTGCTAGA	GAGCATGCTA	AAGGCTATAT	GTGCAGGAAC	ATACTGATCC	CCTTGGCAAC
167281	CCTGAATAGT	TGGTAGGATT	TTAAACTTCA	TTTCTGTGCT	GTAGAAAAATG	AGACTAAGAA
167341	AGGGGTAAAA	TAACCTGCCC	AAAGGGCTAT	GACTGCCAGG	TGGTGGAGCA	ACAATTGCAA
167401	TCTCATCTGC	TGACCCAGAG	CCTGAGCTAT	GTCCACCACT	AGAGTCCTGC	CAGGAAAAAG
167461	TTGGATATAG	AACAAGGTAA	TCATCATCTA	AAAGATTTTG	TAAAACAACA	TGCTGAACCA
167521	AGCAAAACCA	ATACCAGTGT	TTGGCACACA	TGAAATTTTG	TGTCTTATGA	GTCAGGAAAA
167581	ATCAGGATGC	CAGCTGGTTA	TTAGAAACAG	TTCATGGAAG	AGGGGAATTC	TGGTATCTTT
167641	TGAACAATGG	TATCATGAAT	CCAATTTAAA	ATGATTTAGT	ATTCATGTCA	AGCTTTTAGC
167701	TTATTCTTCA	AAACAGTTTC	TCATATTTCT	ATTGAAAGTG	ATTTGAAGCT	GACCCAAATT
167761	GCTAATTGTA	GTCAATGCTG	AAAGAATTGT	CTCCTGTCCT	CTGTAAACCC	AACAAGTATA
167821	CTCATTCAAT	CTCGAGTGTT	CTCAGGAAAA	GGTTCATATG	AACTGTTTTA	GCAAAAGATG
167881	ACATTGTCTT	TACTATATGC	CAAGTGCTAT	TCTATGCATT	CTATATTTTA	ATGTCCTCAA
167941	AGCTTATAAC	CACCTCCTGT	GTATGTGTTT	TAGGGAGGGA	GGACACTGCT	ATTATCCCCA
168001	TTTACAGATG	GAGAAACCAA	GGTGTGAAGA	CATTAAAGTAA	CGTGCCCAAA	ATTGCCCATC
168061	TAGTAAGTGA	CAAAACTCAA	TTTCAACATA	AGCTGGTTCC	TTTTCTTACT	ACTTGGTGGA
168121	AAAGTAATTC	AAATGGGAAT	ATGATCATCG	CAGTTATTAG	CTGCTCCATG	GAGTTTAAGG
168181	AAGAGCTGCC	ATGAGCTGAG	TGGTGGTCAT	GATTGACATG	TCCTTAGAAG	GACTTAGAGC
168241	CTTCATACAA	GACCACCTCT	GCCTCATGGA	GGACAGAATA	AGGAGCCTGA	CACTGGAGAC
168301	AACATTTTCC	TCAAATTTAG	GCAGGACAGA	GAAGGAAAAA	GGACATCAGG	ACTATGCCCA
168361	TTCTCCTATG	CTGCCAACAG	CAAAGTCCCA	CCTTCCTTAA	TATGCTTTCT	GGCAAGAAAT
168421	CTGGATGGTA	CACAAAACCT	CTCCCTCTGC	TTCACCTTCC	ACAACCAAGC	ATTTCCAAAT

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168481 CTTTGACTCT TCTTCCTGAA TCGTGCTTAA AATCTGCCCT CTCCTCCCTT TCTTATACGG
168541 ATAGTTTGAA TTTTACTCCT TGATATTCCT TTTATCATAG ACATGCCACA GTAGCTGGGC
168601 ACAGTGGTTC ATGCCTCTAA TCCCAGCATT TTGGGAGGCT GAGATGGGAG GGAGACCAGG
168661 GGTTCGAGGC CAGTATAAGC AAGAAAGGCA GACCATGTCT CTACAAAAAA TAAAAAATT
168721 ATCCAGGTAT GGTGGGGCAT CCCTGTAGTC CTAGCTACTT GGGAGGCTGA GGTGGGAGGA
168781 TTGCTTGAGC CCCAGAAGGT TGAGGCTGCA GTGAGCCGAG ATTGCACCAT TGTACTCCAA
168841 CCTGGGATAC AGAGCAAGAC CCTACCTCAG AAAAAAAAAA AAAAAAAAAA AAAGTAGAGG
168901 TACCAGAGTG ATATTTTCAA TGCTACTGAC CCTTCATTCC CCAAATGAAA ATCCCCCAAT
168961 AGGTGTCAA TTTTACGTG TCCTTCAGGA GTTACTTCTA AGATGAACCA CTCTCTACCC
169021 TAAATGTCCC TCCCCACCAC CAAAACCAGG GACCTCCAGG CAGACATTTT TGATGGTTTG
169081 TTTTCTTTAC TAGACTGTAG ATACCTAAAA GGTGATGGGT CTTTCTTCCC TGTTTTCAGG
169141 CCCTACTGCA TGGCTTTACA TATTGTGGTT TTTCAAATGA TATTCTGGT GTGAAACAAG
169201 AAAAAATGCG GGTGTTTGGT TTGAGAACA CCGTGTCTAA AGCAAAAAGA AATTCTCAT
169261 AACACAAATG GATAGAGATA AGAGTCCAAC CATCCCATG AAGGTCAGGA TGGACAGTCT
169321 AGATAATTGA GCAAGAAATC ATCATAAACT ATTTTTCAGA AGAATGACAT GATGAAAGCT
169381 GATATTTCCAA GTCATATGT TAGGTTTCAA GTTAAATCAT CTCAGCTCCT GGGGAGCAGG
169441 ATAAGACTTG GTACTTACCA AAGCTCCCGG GCCCACACAC TCACCTTGTA GCCCTGGCAT
169501 ACGTCTTCAA CAAGAGCTGT GGTGTGCCCT TTGTGCTGTG GTGCCCCGTC ACAGCGCCAG
169561 CAGATGAGCT GCCCTCATC TTCGCAGAAC AGGTGGAAC TCTCTCCGTG TTCCTCACAT
169621 GACATTTCTT GATCCGTCTC TTTGAGGGCT TCAATGAGGC TCCCAGCTG CTTGTTGGGT
169681 CGGAGGCTAT CCATATGAAA TGGAGCCCGA CACTGGGGAC AGCAGAAATGT CTCCTGCCTC
169741 AGTTGCTTTT GGCTTGGGT TTTAAAGAAG TCTGTTATAC ACAAGTGGCA GTAGCTGTGT
169801 CCACAGTTGA TGCTTACTGG GTTCGTCATC AGGCTCAGGC AGATGGAGCA GGTGGCTTCC
169861 TCCATCATCT TCTTGGTGCT GGTGGTTGAG GCCATAGCTT TTATTGAAA GCTCCAATAT
169921 TGGCTCTAGA GATGGAGATG AAGCAGCCAG AATTTTCCAC CGTGATGAAA ATACACCTCA
169981 CCTGCACCTC TATGTGATGA GCTGGCTGCA ACTGACTTCC ATAGGTCTTG AAGGTTTTCC
170041 TTCCAACCCC TATTATCTCA TTTTGTATTG AAGAAAAGAG GACCTAAAAG GAAGAAGTTG
170101 AGGCTGAGGT TGTTTGGGCC ACGTTTGAGA ACTGCAACCC AAGTGCAGAG TTTCAAGTTG
170161 CCCTCATTAG CAAGCAGTTA CAAGTGGTTG TTTAGAGGAA AAAAAGCAGT TTTAAAGCAG
170221 TTTTAAAGTT GTTTGCCAAG AATTTACATT AAAATAGCAT AAGCTTTTGA CTGGCTATAC
170281 ATTGTTCTTT GTATTACAAA TCTCGGAAT ATGTAGGTAA TAGATGAGGC AGCCAGTCAG
170341 GAACAAAATG CTTTTAAACA TGGGGTCTTA ACTGAAGACC TATACTCCTG CCTCACTTGT
170401 CCTGATAAAT TTTGCATACC TCACATAGCT CAGACTGCTC TAAATTATTT CATTATTTTT
170461 CTTTTCTCAG TCTTCTAACT TTTTTTTTTT TTTTAAATGA GACGGAGTCT CACTCTGTCA
170521 CCCAGGCTGG AGTGCAGTGA CGCTATCTCG GCTCACTGCA CCTCAGCCTC CCGGGTTCAA
170581 GCGATTCTCC TGCCTCAGCC TCCCAGTAG TAGCTGGGTC TACAGGTGTG CACCACTACG
170641 CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA CCATGTTGGT TGGCTAGGAT
170701 GGTCTCGATC TCTCGACCTT GTGATCCACC CGCCTCAGCC TCCCAAAGTG CCAGGATTAC
170761 AGGCATGAGC CACCGTGCCC AGCCTCTTTT TCTTTTCTTA TAAGACAAGT TCTCGCTCTC
170821 TTGCCCAGGC TGTAAGTGGAG GGCAGTGGCA TGACCACAGC TCACTGCAGC CTCGACCTCC
170881 TGGGTTTAAAG CAATCCTCCT GCCTCACCTT AAAGAAGAAA TGCATTGGAA TTTAGAGGAT
170941 CACCATGTCC AGCTAAAGTC TTCTCTCCAG AAAGAAGAAA TGCATTGGAA TTTAGAGGAT
171001 ACACAAACAT CTAGCTGTAT AGCTAATACA GTAGCCACTA TCATGAGTAG GAATTTAAAT
171061 TTAACCTAAT AAAAATTAAA ATGAAAAAAT TCAGTTTTTC TGTTCCAGTT GCCACATTTT
171121 GATTGCTTAA TAGTTGCATG TGACTAGTGG CTACATAACA GCCTCAATAT ACAACATTCT
171181 GTTATCACAG AAAGTTACCT TGGACCAAGT GCTGGGAGAA GCAATGCAGG CTTCTCACA
171241 AAAGCTGTAA AAGAGAGAAC TCAGGGAGTG TGAAACTCTT TCCTATTCTA GTTAACTTCA
171301 AGAATAATTG TTACCAGGCC AGCACGGTGG CTCACGCCTG TAATCCTAGC ACTTTGGGAA
171361 GCCGAGGCGG GCAGATCACC TGAGGTGAGG AGTTTGAGAC CAGCCTGACC AACATGGCAA
171421 AACCTCATCT CTAATAAAAA TACAAAAAGT TAGCTAGATG TGGTGGTGCA CACCTGTAAT
171481 CCCAGCTGCT CAGGAGGCTG AGGAAGGAGA ATGACTTGAG CTCCGGAGGG GGAGGTTGCA
171541 GTGAGCCCAG ATTACACCAC TGCACTCCAG CCTGGGTGAA AGAGCGAGAA TCTGTCTTAA
171601 AAAAAAAAAA AAAAGAATAA TTGGTACCAG AATTACTCTT TGTAATTAGT AGTAACACTT
171661 ATGCAATTGG GTGATCTGTG ACAGATTCCA TTGAAGGAGT ATGGGGAGCT TCACCCCAAT

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171721 ATATGACTCC CTGGTATAAT GAGTATTTTG AATTAAAGGC CCTTAGAGAT CAGCAGATGC
171781 TGGAAGAGAC TTTTCCCCTA TCTACATAAA GACCAGTCAC ACTAGACAAG AAGAACAATT
171841 GTTTTTCCTT CCAACCCCTA TTATCTCATT TTGTACTGAA GAAAAGAGGA CTAAGAATGT
171901 AACCAGACCT AATCAGACAC TTTCACAAAA TAATGTCTGT CTCTCAGGCT CATTCAATTT
171961 CCAAAGAGAA CCATTTACAA GTTAAACTCT GTTCCTCCAT TCATTTCATCC TCCCAAATAT
172021 TCATTTATTC TCCCTAGTAA TCATTTACTG CCCCTCAAAG AATTACCTAT ATTCTCCTGA
172081 TATCACCCCT CCCCTCTGAA ATAAATATGT ATACATGTAT AAACGTTATA CATACATATT
172141 TATACAGTAT ACATACATAT TTATACATAC ATACATATGC ATACATATTT ATATTTATGT
172201 ATTTATACAT AAGTATTTAT AAATAAGGCT ATATAAGTAT CTACCCCAT TGGCAGAGGG
172261 GGTAACTACT CTGTGATTCT AGCCCATGTA CTTGTTAATA AATTTGTATG CCTTTTCTCC
172321 AATTAGCCTG CCTTTTGTGA GTCGATTTTT CAGTGAACCT CAGAAGGCAA AGGGGAAGTG
172381 TTCCCTTGGC TCCTACACCA TCATGACAAT AAAATTTGAC TCCACCTCGA CCCCCCAT
172441 CCCCCACAAA GAACAACAAC CAACACTGGT TAATAAGGTC GGTTGTTTTT TGTTGTGTT
172501 TTTGTTGTTG TTGTTGTTGT TGTTGTTTTT GCTTTCAGGA GCAGAGGTAT AATAGGCAAA
172561 AGAAAGAGAA AGGAGAATAG TGAATACCTC TTCTGCAGAG AGGGGTGCCT AAGTGGGACT
172621 TCCCTGGCTA ATAACGTCTT GCTAGAGACC CAACCAGGAG GATAATGGAA GCAATCAAGG
172681 CAACCAGAAC AACCAGAAGA ACCAGTTTAT CCTTTTGTG CCCTCTCCCT AACTGAGGG
172741 AATAAGAATT GGAAAGAAGG CTGCAGAGCA GAGGGTTTGC TCCTGAGGAG CAGTTATTTT
172801 TATGGGATCA GAGCTCCTGC AGAAGTGGGG AGTTTACTTT TACTATCTCT TCTCCAGGAC
172861 AGGACCTATC TCAAGAGACA TGTTCAAGT GATTGCAACA TAAAGAGTTT GCAGACCCAA
172921 GGAGGTAGGG AAGGCAGAAA GAAGATGGGG GAGGCCAGGG ATAGGCAACA GAGGAGTGAC
172981 CAGGAGCGAA AAAGCCTGCC TCTTCTGAGA ACCTAGCTGG GCTCTCCCTG TACCCCGAT
173041 CCCTCCCCC CGCCCGCCCC CACACCCCTA CTCCTGGGAG CTCCTCTAGG ACAGGGGCAG
173101 AGTCAGGAGG AAGTTTGAAG AGTGCCTAGA ATAAAAACA GTAATTTAAC TACAATTACC
173161 GGGTAGGCTG TTTTCTCTC ACAATTTGAT CAGTCTCTTG AAGCCACACA GAATTTCTTC
173221 TGAAGACGTG TATTCCTTGG CAGGCTATTT CCTCCAGTGA TACACCAGGC CCCTCTCTGC
173281 TGGGGTCACT GCTCTTCTGG GGAGATGGGG CTCCCTCTCT TCCAAGGCTC CAGGGTTCTT
173341 GTCCTGGGCC CCACTCATCT AAGTCTGAA TCTTCTGAGA TTTGGTGTAA AGTCTGGTGA
173401 AAGAAAGAGC AGGAAAGAGG TGAGAGCTGT AAAACAAAGA AAGTCCTGAC CATTTTCAGA
173461 GTTGGAGGGG CCCTGCTGTC ACGAAATATA TTCCCAACC CACTTGCCAT CAGTACACAC
173521 TCACATATCC ACTGAGAAAA CTTAGCCTG GACCTTTTCC GTAACCTTCA CTGCTCAGAC
173581 ACTTACATAT TCGCTGCTAG TCCCTCTGT TGCTGCCACT TCCTGGGTCA GGAAGTTAAC
173641 TCAGACCGGA TTAAACTGAG AAGTGAAGCT ACTGTGGGAG GCGGGGCTCA TAAGATTTAG
173701 GAGAAACTA GTGACGTTGT TCATATCATT TGCACTCCGC CTCTCCGGTA AAGGAGGGGG
173761 AAACGTAGGA AGAAAATATC CTTCTTTTAC AGCAATAAAA AGAAGGAACC AATTAATAAC
173821 CCTGTAACT ATCATGTGAC CCAACACAG AGTATCTAAA AACAGGAAGC CTGCAGAGGT
173881 TCAGTTCACA GACTCTGATT TGAGATCTTT CTACTTTTGC CACCAACTCC CTTGGGAGTC
173941 CTTAAGCCTT CTTAGCTGAT GTTACTTCTT TTGCTATTTA TGGGTGCTT GTGGTTCTAT
174001 AACTGCTCTG AAGGGTGTGG TGGAAAAAGG GGTGGTAACA GCAGTAGGAC TCATTGGCAT
174061 CACAAAATTC ATCTGAGTCA GCTTTCTATT CTTCTCTGTC CCGTCTGTG TCTTGTTTTT
174121 CTCTTGCTG TCCTTCTGCA GGACTCAGAT CTTCTTCAAT AGCGAGGGTC AGCCAGGATA
174181 GAAAATGGGA GTCACTAGTG GCCCAGCAGT GAGTGCCCCC AGCTTAGAGC TGTGTGGGAT
174241 CCCTGGGACC ATCACTCTGC TTTGTGCTTT GTGGAGAAAA GGCTGTGGGG TCCAGGGTCA
174301 AGTCCTTAAT GACTTAGCTC CAGCTTCTCC ACTTCAAAAT GAAAGGAAAA GTACTATCAC
174361 CACCCGTTAG AATTATTATT TCATGGGGAA AAAAGATGGA TTACTATCTC ACAATAAGAG
174421 CTTGTCACAT TTATAAGTCT CAGGTGTAAG AGGCATTTAT GATAACAACA TAATAAATGC
174481 TGGCTTAAGT AGATGCAGTG GTCCAAGGGA ACCAGTAAGG GGAGCTCAGG ACACAGGTGG
174541 GAGGAGAAAT TAAACTTGAA TTCTGGGAGC CACTGGCCTG TCTGGGCCCC TGGCCTGCCT
174601 GCTGACCCTG ATAGCCAATG GAACATGGAG TTTGGCCCAG CTGCAATCCC TCTGGTCCAA
174661 CTACTCAAAA TAAAGGCAAG ATTGGGAAAC ACGTTCCTTT CTTCTTATAC CAAGCAGAAG
174721 ACTCTTCAGC ACTGCACCCT CTTGGGTGCT CACAGAGCCT TCTGTTGTTT TGCCACTTAC
174781 GATTCATCAT GCCCTGGCAT GATGGTTGCA GACCCCATGC ATAGCATGGG ACATTCTACT
174841 CCTGAGGCAA CCAGCACACA GAGAGAGGAG AAAGAATGAG CCCCTGAATC CTTGGTCCCA
174901 CGATGAGTCC TTGCAGATAT CTACAACCTT CATTGTTGTG GATGTGACTC TGTACCCAGG

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174961 CATGGCTCAT TCCAGATCTG TCCTATTGTC AGAGGTGTTT AAACCAGAAT GACTCCATTT
175021 TGAATGGGGG CTAGGTAAAA TAAGGCTGAG ACCTACTGGG CTGCATTCCC AGGAAGTTAG
175081 GCATTGTAAG TCACAGGATG AAATAGGCAG TTGGCACAAG ACACAGGTCA TAAAGATCTT
175141 GCTGATAAAA CAGGTTGCAG TAAAGAAGCT GACCAAAACC CACCAAAATC AAGATGGCAA
175201 CAAGAGTGGC CTCTAGTCAT TCTCATTGCT CATTATACAC GAATTATAAT GTGTTAGCAA
175261 GTTAGAAGGC ATTCCCACCA GCTCCATAGT GGTTTATAAA TACCATGGCG ATGTCAGGAA
175321 GCTACCCTAT ATAGTCTAAA AAGGGGAGGA ACGCTTGGTT CTGGGAATTG CCCACATCTT
175381 TCCCAGAAAA CATATGAATA ATCCACTCCT TGTTTAGTAC ATAATCAAGA AATAACTGTA
175441 AGTATCTGTA TTAGTCCATT TTCACACTGC TGATCCAGAC ATACCTGAGA CTGAGTAATT
175501 TATACCAGGA AAAAATGTTT CATGCTCTTA CAGTCCACG TGTCTGGGGA GACCTCACAA
175561 CCACAGCAGA AGGCAAGGAG GAGCAAGTCA GGTCTTACAT GGATGGCAGC AGGCAAAGAG
175621 CTTGTGCAGG GAAATTCCTT CCTATAAAAC CATCAGGTCT CATGAAACTT ATTGACTATC
175681 ATGAGAACAG CAGTATAAAT TACTCAGGGA AAGACCTGCC CCCATGATTC AATTACCTCC
175741 CACCAGGTCC CTCCCACAAT ATGTGGGAAT TTAAGATGAG AGTTAGGTGG GGACACAGCC
175801 AAACCATATC AGTATCCTTA GTCCAGAAGC TGATGCTCTG CCTGTAGAGT AGCCATTCTT
175861 TTATTCTTTT ACTTCTTTC TTTCACTTTA CTGTGTAGAC TTGCCCCAAA TTCTTTCTCA
175921 CACGAGATCT AAGAACCCTT TCTTAGGGTC TGGGTTGGGA CCCCTTTTCT GGTAAACACTA
175981 TCAAAGGATC AGGAAAAGGA AGCTAGTGAA TGCTAAAAAG GAAACAACT ACCATTACCA
176041 ATAATAACAG CAAGACAAAA GCAAAACGGA TTGTGACAGC TGTCCCATCT CACACCTGTT
176101 TCCCATTGCA GGAAGGAGGG GCTGGTTCAT GCACAGAGTG GCCAATATTA GAAGCAGAGA
176161 GGGGGTGCAG ATGAGACTTC AGGAATATGT TGACAAAGGC AGGCCTAGGG AGAAATCAAC
176221 CTGAACTATC CCCAAGGAGG AATGCATTAT CTCTAATATG TAAAGTTAGG CTGTATCCTG
176281 TGATTATGGG ATATAGGAGT CCAAAGACTC ACAATGGGAA GTAGGTCAT AGAGTCTCCT
176341 TCAGAAGCTC TGTACTGTGT TTTCCCCTG TGGGCAAGAG TCAGCACTCA GCTATTCTTA
176401 GAATGCCTTT CCTCAACTCC TTCAGATTTT GCCTCTCAAC TAACCCTATC CTGACCACTT
176461 GTTAGCAAGT GTACCCCTCT CTCCCTCCCA AACATTTTCA AATCTATTTT GTTCCCATGG
176521 CACTTATCAC TGAATATTTT ACTAATTTAT TTTGTTTAGT GTTTGCTTCC CTCATGAGAA
176581 TGCAAAGGGA TGGATTTTTT TCAATATTGT TCACTGATGA ATCCCAGTAA CTAGAATATT
176641 TCTAAGCATA GTGATGTGCA TTAAATCAAA GAGTAACTTT CTGAATTGCA CTAAACACAC
176701 ATCACAAGAG GTGTGTGCAC ATATGTGCAT GATGCACGTA GTGTGGTGTG GGTGTTGTGT
176761 GGGGTATGTG GTAGTGTGTG TGCTGTGTGT GGTATGTGAT ACATAGTTTG TGTAGTGTG
176821 ATGCATGTGA TGTGGTATGT GTGTGCGTGT CCATACATAT TAGGGGTGGC GGGGATGTTA
176881 ATATGTCAAA TGGTACTAGA AAGTATCAGA ACTCATGGTG CTTACTGGTT TCCCAGAGAG
176941 CTGCTTCTCT CCCACCTGTA GGATATACTG ATGGTTTGGA CAGAGAAGAA ATAAAAAGAA
177001 GGCTGTGACC TACTGGGCTG AGGAAATAAA AACGAAAGTA AAAGAAGAGC TGGGAAAAGA
177061 GAGTGGAGGG GCCAAGGGAA ATTTCCCTTT TGGCTTCTGG GGAACTTTG CTGAAAAATC
177121 AACTCACAAA TTTATTAACA TGTACACAGG GAGAACCATA GAATGATTAT CCACTTCCCA
177181 AGAGGGCTTA AAAGCTTATA TATTATCCTG GCAAAACAGA TTATGGGAGG GGAAGAAGAG
177241 AAACCTCTGT GATGGGATTA CTGTTGCGGA TTTTGTCTCC TTCGCTCAGC TAGGTCCGGG
177301 TTTTGTCTC ACAGCCAGGA AGAATTAGGC ATGCAGCCAT CAAAGAATGA GTGGAGTAGA
177361 ATTTATTAAG TGAAAGGAAA GCTCTCAGCA AAGACAAGGG TCCTGAAAGC AGATTTCTGG
177421 TTTGCTCTTC ACAGTTGAAT ACTAGGCTT AAGACTCAA TTCCTGACAA CTCCACCCTG
177481 TCCTACCAGT GCATGCAGGC CTTTAGACTG AGCTACTCCA TATTGATTAA TTTCTGAAC
177541 TGCGCATGTG TTAAGGAAAG GAATCATCCA CTGCAGGCAT GTTTAGGCAA GCCCCCTGTG
177601 CAAGTTCCCT TATCTGCACA AAACATCCGG TGTAAGCACT TGTGGGGCAG GTCAGAGGTT
177661 CTCTGGGTAC CATTCCTTA CTGTCTGCCT AAAGCAAGCT GGCCAACCTC TTTCACTACT
177721 AGGGAGAGTA AGTAGATCAG GGAACAGAGA TTAACCTGAA CATTATCTTG TGAAAGTCCG
177781 TTCGGGCATG GTTACATTCT TGGTCTTACA GGAAGGGTAA ATAAAAATAA TTGCTCTTTT
177841 TGGTGGGTCT GGATCTTAGG TAGATAAAGA AACTTTAATT CCACGATGTG TTTTGGTAGG
177901 GATAGTTGGT GGCAGGGATG TCAGAGAGAC TTTGAGGCTT CTTCACTTCA ATATGACCAA
177961 GGGCCATATA TTAGGGTATC AATTTCTGAG CCCCAACAAG AGCTTAGGAG AGATGTGATA
178021 GCATCACAGT GTGAAAGCAA TTTTGTCT GTTTTAGAG ACAGGCTCTT GCACTGTAC
178081 CCTGGCTGAA GTACAATGGT ACGATCACAG CTCACTGTAA TCTTGAAGT GGTTCAAATG
178141 ATCCTCCCAT CTAAGCATTT CAAAGTGTG GATTACAGG CATGAGCCAC GGTACCCAGC

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178201	CTGAAACTGC	ACCCACTTTC	TGATAAACTT	TTCAAATGAC	TAAAGGGGAG	AGAGTAAGCA
178261	CTACTCAGAG	GTAGGAAGAA	AGGACACAGG	ATTATAGGAT	TAAAACAACA	ACCACCAAAA
178321	AAAACCAGAC	CGGTGTGGTG	GCTCACACCT	GTAATCACAG	CACTTGGGGA	GGCTGAGGTG
178381	GGGGGAGTCA	CTGGAGGCCA	GGAGTTCGAG	ACCAGCCTGG	CCAACATAGC	AAGACGCTGT
178441	CTCTATTAAA	AAAAAAAAAT	ACCTGCCTTG	AGCTAATCAG	AATCATGGAC	CCTGACAAAG
178501	GATGTCCCAA	AGTAAGTCTT	AGCATTTTTT	TTTTTTTTTT	GAGACAGTCT	CGCTGTGTTG
178561	CCCAGGCTGA	AGTTCAGTGG	CGTGATCTCG	GCTCACTGCA	ACAGCTGCCT	CCCAGGCTCA
178621	AGCAATTCTC	CCTGCCTTCA	GCCTCCCAAG	TAGCTGGGAT	TACAGATGCC	CACCACCACG
178681	CCTGGCTAAT	TTTTGTTTTT	TTTAATAGAG	ATGGGGTTTT	GCCATGTTAA	CCAGGCTGGT
178741	CTTGAATCC	TGACCTCAAG	TGATCTGCCC	ACCTTGGCCC	CTCCATAGTG	CTGGGATTAC
178801	AGGCGTGAGT	CAGTGCACCC	GGCAAAGTCT	TAGCATTCTT	TACAAACAGT	TTGTACCCGT
178861	ATCTCTAAAA	GGGAGTAGTG	AATTTCAACC	CAAAATATGG	CTTCCTGATA	TAATGAGTAT
178921	TTTGAATGAA	AAACTCTTAG	AGATCAACAG	ACACTAAAGA	GACTTTTCCC	TAGGTACATA
178981	AAAATAGGAT	GGCCCCACCA	GCGAGAACAA	TTGTTCTTTT	CTCCCTCCCT	GTTATCTCAT
179041	TGTGCATTAT	AGGAAAGACC	AAGAATGTAA	CCACACCTGA	ACAGACCTTT	TTATAAGATA
179101	ATCAGTCTCT	AAGCATCATT	TAAATTCCAA	GGAGAACTAT	TTACAAATTT	ATCTGTTCTT
179161	TGATCCAATT	AGTCTCTCCT	GGTAGTTACA	TATTGCCCCT	CAACAGAATT	CCTCTTCTTC
179221	TGTTTTCCCAT	AACCTATTTT	GCAAGGATCA	AGCCCCGTGT	ACTTCTTCAA	CTTCAAGTTG
179281	GCATATAAGC	TTCTAAATTC	CACTGGGATA	TTGGTACTAT	GTGCATGAGG	AGAACCACAG
179341	AGTAATTAAA	TTGTAAAGCC	TTTTATCTTA	TGAATCTGCC	TTTTTTTG TG	TTCATTTTTTC
179401	AGCAAAACTT	CCAAGGGCAA	AGGTATAAAA	CAAAAATAAA	ATTCTAAAGC	CCCCCAACCA
179461	TCTGAATAGA	CITTTCTCTC	AGTCAGGCTT	CTTAAAATGT	AACCTGAAAG	ACTGGCTCAG
179521	GCCATTAAGG	GAAGTGGGGG	TTGAACATGC	CTCATTATTC	CTCTCTGGCA	TTAACATCAA
179581	CACAGCTTTT	AAGTCTGATA	AGAAACATTT	TACAACCTAT	TCTCTCTGAA	GCCTGCTAGC
179641	TAAAAACTTC	ATCCCATAGT	ACAACCTTGG	TCTTCACAAC	CTGTTATCAC	AACCTAGTGC
179701	TCCTTTCTAT	TAATCCCAA	TCTTTATACA	AACTCAACCA	ATTGTCATCA	CCTCCACCCC
179761	ACTCCTCCGC	TGCTTCCAGT	TGTCCCGCCT	CTCTGGACCA	AACCAAGTGA	CATTTCTTAA
179821	ACGTATTTGA	TTGATGTCCC	ATGCCTCCCT	AAAATGTATA	AAGCCAAGGT	GCATCCCAAC
179881	CACCTTGAGC	GCTTGTTCTC	AGGACCTCCT	GAGGGCTGTG	TCATGGGCCA	TGGTCACTCA
179941	AATTTGGCTC	AGAATAAATC	TCTTCAAATG	TTTTACAGAG	TTTGGCTCTT	GTCATGACAC
180001	AGATGACTGC	TTCACTGAAG	CCTGCTCTGG	AAGTGAGTGG	GGGTTTTGCA	AGGATAATTT
180061	TCCCCGATA	GCCCCAGAAG	CAGCTAGTAA	TAATACACTT	AAAGGTAGCT	AAAATGCATT
180121	GAACACTTGT	TTTGTGCCAG	ACCTATGTCA	ACATTTGCTT	TGTGCCAGGC	TTATGCCAGT
180181	ACTCCTGATT	TGTTAATACA	TTCTAAATAA	AAATTTCTGGA	GTTTCAAATA	TAATAACTGA
180241	AAAACAGAAA	ATAAATAAAA	ATATATAATA	ACTGAAATAA	AAATTTACTA	AGGCTGGGGA
180301	TGGTGGCTCA	CTCACACCTG	TAATCCTGTT	ACCGGAAAGG	GGTCCGTCCA	GATCCAGACC
180361	CCAAGAGAGG	GTTCTTGGAT	CTCACACAAG	AAAGAATTCTG	GGCGAGTCTG	TAAAGTGAAG
180421	GCAAGTTTAT	TAAGAAAGTA	GAGGAATAAA	AGAACGGCTA	CTCCATAGGC	AGAGCAGCTC
180481	TGAGGGCTGC	TGGTCGCCCA	TTTTTATGGT	TATTTCTTGA	TTATGTGCTA	AACAAGGGGT
180541	GGATAATTCA	TGCCTCCATT	TTTTAGACCA	TATAAAGTAA	CTTCCTGACG	TTGCCATGGC
180601	ATTCGTAAAC	TGTCGTGGCG	CTGGTATGAG	CATAGCAGTG	AGGACGACCA	GAGGTCACTC
180661	TCATCGCCAT	CTTGGATTTG	GTGGGGAGCA	GTGAGGATGA	CCAGAGGTCA	CTCTCATCGC
180721	CATCTTGGAT	TTGGTGGGGT	TTAGCCAGCT	TCTTTACTTT	TTTCCTTTTT	TTTTTTTTTT
180781	TTTTTTTTTT	GCCCAGGCTG	GAGTGCAGTG	GCACGATCTC	AGCTCACTGA	AACCTCCAAT
180841	TTCTGAGTTC	AAGCGATTCT	CGTGCCCTCAG	CCTCCCAAGT	AGCTGGGATT	ACAGGCATGT
180901	GCCACCACAC	CCAGCTAATT	TTTTATATTT	TTAATAGAGA	CCGGGTTTCG	CCATGTTGCC
180961	TACGCTGATC	TCCAACCTCT	GCGCTCAAGC	CATCCAGCCA	CCTTAGCCTC	CCAAAGTGCT
181021	GGGCTTATAG	GTGTGAGCCA	CCCCACCTGG	CCTAGCCGGC	TTCTTTACTG	CAACCTGTTT
181081	TATCAGCAAG	GTCTTTATGA	CCTGTATTTT	GTGCCCCTG	CCTGCCTCAT	CCTGTGGCTT
181141	ACAATGCCTA	ACTTACAGGG	AATGCAGCCC	AGCAGGACTC	AGCCTTATTT	CACCCAGCTC
181201	CTATTCAAGA	TGGAGTCTTT	CTTGTTCAAA	TACCTCTGAC	AAGCCCAACA	CTTTGGGAGG
181261	ATGACACAGG	AGGATTGCTT	TAGCCTAGGA	GCTCAAGACC	AGCCTGGGCA	ACACAGTGAG
181321	ACCCCATCTC	TAAAAAATAA	AAATACAAAA	AAATTAGCCA	GGCATGATGG	TGTGTGCTTG
181381	TAGTCCCTGC	TACTCAGGAG	GCTGAAGTGG	GAAGATGGCT	TCAGCCGAGG	AATTCAGGCG

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181441 TGCATTGTCA GAGGCATTTG AACCAGAATG ACTCTATCTT GAATAGGGGC TGGATAAAAT
181501 AAGGCTGAGA CCTGCTAGGC TGCATTTCCA GTATGTTAGG CATTCTTAGT CACAGGATGA
181561 GATAGGAAGT CAGCACAAGG TACACATCAC AAAGACCTTG CTGATAAAAT AGGTTGTGGT
181621 AAAGAAGTTG GCCAAAACCC ATCAAAACCA ACATGGCCAC CAAAGGGACC TCTGGTTGTC
181681 TTCACTGCTC ATTATATGTT AATTATAATG TATTAACATG CTAAGAGACA CTCCTACCAG
181741 CATCATGACA GCTTACAAAT ACTGCGGCAA TATCTGGACT TTACCTTATA TGGTCTAAAA
181801 GGTGGAGGAA CCCTCAATTT TGGGAATTGT CCACCCCTTT TTTGGAATGC TCATGAATAA
181861 TCCACCCCTT GTTTAGCACA TAATCCAGAA ATAACATAA GTATGCTTAT TTGAGCAGAC
181921 CACGCTGCTG TTCTGCCTAC AGAGTAGCCA TTCTTTTATT TCCTTACTTT CTTAATAAAC
181981 CTGCTTTCAC TTTACTGTAT GGACTTGCCC TAAATTCCTT CTTGTGTGAG ATCCAAGAAC
182041 CCTCTCTTGG GGTCTGGATC AAGACCCCTT TCTGGTAACA TCTTTCTGGT GACCACGAAG
182101 GGACAATACT GAGGAGACTC TGAAGCCAAA GGAAACAGAC TACAGCACC AACTGGCTGAC
182161 TTTGGGTAAG TGGTGGAGTC CCCGGGTAAA GGATAGGATT GGGTTAGAGG TGCAACTTAG
182221 GGGAGATAGG GTCTCTCCTA AGACAGAGAG CGTTTCAGTC CGCTCTTAAT AAAGGGCAAG
182281 AATGCTTGAC CGAACTTGGG TTTGAGACCC AACTTAGGAA GGCTACAGTC CTTAAGATTT
182341 AAGGGGTTAG AGGCCCCCTC CAGTAAAGTC TCTCTTGGTT AAAAACGGAT TTAGCATTAG
182401 GGGATGTTAA CTGCTATTCT GTTTGTATTA ATCTTCCCTG TGCTCTTTGC TGACAGCTAT
182461 GGGTGACAGG ATTAGGCATG TACAGGATCA CGGGACATTG GGAACCTTTC TTCTCTCCAA
182521 AAGGGGAAGC TTGACAGCTG ATAGGACTGT TGGAAAAGAT CCTTTGCTA TGACAAGCAG
182581 CCGCCTGAAC TTTTGATTCA GTGTTGCTGC AATGGGTGGG TCTTCTCTG GCCTCTGTGA
182641 ACTCCTCACC TTCCCACCT CACCACAGGC AATGCTTTTC TCCCTTCTC TCTTTTCTCT
182701 TTTCTGTCTT TTCTGTACT TGAGACAACC ATCTTGCCCA GAGACCATAT GTTGAAACTC
182761 CTGGTCAGAA GTTTGATTAA AGATGAAAGG GCCTATCTGG GGGCAAGTTT GAGCCTTCCC
182821 AGTTAGATAT TGGGTGCTAA GTGGAGTGGC CAATGTCTAT GTTTGTGAC ATGTATATTG
182881 CTCTGGCTGA AATGGAAAAC GTTAATTTGG TTACTTTATG TGGCCATTGG GCAGCATCTT
182941 ACAAAGTGA GAGACATTTA TTTGCCTGTG GTTCCATGAA ACAGAAAAAA GTTGGTTTTTC
183001 CTTTGTGTCG TAGCTTGGAC CCAAGGCTT TGCAGTGAGC AAGGTTGCTA GCGCTGCTCA
183061 GTGAAAGAGA ACCCAGAAAC CTGGCATGCC AGCAAAAGGG TAAAGATTTC TTACCAGTCA
183121 GGCCTCTGGC CTCTCTCTCT TAGTGAAAAC TGAATGAATG GTAAAAATCA CTGTTTATCA
183181 CCTCTGTAAA GTTTTGATTA ATGGGAACAA GGATTTGTGG GGCTAGTCTT AAGCTGTAAT
183241 GAATCTGGTA TACTTTGTGA TATCAATTTG TCTTTCTGTA TTACTCTGTC ATAAAGAGGA
183301 ATATGGTAGG ATAGAACATG GGCTTAGGAC TCCATAAGCC TGCTGTTCAA GCCAGCCCAG
183361 TAAACTGGTC CGTTGCAAAG TTTATTACAG GTCCCTGGAA AAAAAAAAAA TAAAAAACTG
183421 GATGAAGTTT CTTTCTCATC TTGTTTTATG TCCTTTGGAG CTTACCTTG TAACCACGTG
183481 GCGGTACTTT CTCTTGGTCT CTGCCATCCA GGGAACAGGA ATTTTGGGGT TTATGTAATA
183541 GTTAACCTTA AAAATTATCT CAAGCCATTG CAAGCTCAA ATTGGCTGCT CTGGACCCCT
183601 TCTGGGAAGG GCAATGGAAA CTAACCAGTG TTGTAGCTCA GCAGCTAAGG ATTTGTCTAT
183661 TTATAATGGC GGCCAAGGTT CAATCCTGGC TTAGGGAATG AGTACTTTCT GATTGATATC
183721 TGTGTGACCT TTACCATTG TTGATTCTGT TCTCTTCCCC TCCACACACT GTCTTGAGTT
183781 TTCCTCTCTC TGAGAACCTG GGAGATTATC TTTGGTAAAG TTCAAAGACC AGAAATAATG
183841 GCCGTGTGGG ATGGCTAAAG TTGAGTAATA AGAACTTAA AAGGACTCCT TTTTTTTTTG
183901 CTTTAGAGTG CTATGGTTTA TGGTTAAAAG CTTAATTAAA AGTGGATATT CAATCTCTAA
183961 AAGCCTGGGA CTCCTTGGGA AAAGCAGAGG AGGCACCACA GACCCCATTT TGGGAAAACC
184021 TCTGTTTTCC TCATGAAACC CCAGGAACCTG GAAGTGGATA GATCCTTCGC AAAATCTAAG
184081 GCTCTGTTTG GCTTTGCATT ATGTTATCTG ATGTTTTTGA CTTTTGGGGG TATCAGAAAT
184141 TACTTTGCAT TATGAGGGAG ATCTGGGTGT TAATAACCAG GTAGGAAATA TACTTCTGGG
184201 GATAGCTAAA GGCAATATA GGTGAATACT TGGCTATTTG CACTTTTGGG TCACAAGAAG
184261 CATTCTCTTG ACTACCTAGA AGGTATGGAA ATGTCTCCAT CCCCACCGAG AGATAAGATT
184321 CCCAGGGGAG ATGGCTGATC CCCCAAAAGA GGGCTGATTC CCTCTTTTGG GATCCAGGAT
184381 CTGGTATAAA AATGGGACCC TGGCCAGGCA CAGTGGCTCA CGCCTGTAAT CTCAACACTT
184441 TGGGAAGCCT CAGAGTTATG AATGTCTCAC CATACTGACA CTTTGTGACT GAGCTCCTCT
184501 CTACCCTGGA CACAAGAGAC CCTAATAATT AGACAGGAAT ATCATGCCCC CTATTGATC
184561 TGAAGAAGTT ATAGAAGATG GATCTTTATC CCACTGCAAT CCTTAGGATT AAGGGTTCCC
184621 TGGTAAAGG GAGTGGGAAA ATATGTCAGA GGCATTTGAA TCAGAGTGAC TCCATCTTGA

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184681	ATAGGGGCTG	GGTAAAATAA	GGCTGAGGCC	TGCTGGGTTA	GGTTAGGCAT	TCTAACCAGG
184741	AGTTTAGTCA	CAGGATGAGA	TAGAAGGTTG	CACAAGGTAC	CCGTCACAAA	GACCTTGCTG
184801	ATAAAATAGG	TAACGGTAAA	GAAGCCAGCT	AAAGCCCACC	AAAACCAACA	TGGCCACAAA
184861	AGTGACCTCT	TGTCATCCTC	ACTGCTCATA	TACACTAATT	ATACTGCATT	AGCATGCTAC
184921	AAGACACTCC	CACCAGTGCC	ACGACAGTTT	ACAAATACCA	TGACAACATC	TGGACGTTAC
184981	CTTATATGGT	CTAAAACGGG	GAAGAACCCT	TAGTTCCTGG	AATTGTCCAC	CTCTTTCTG
185041	AAAAATTCTT	GAATAATCCA	TTAGTTTAGC	ACATAATCCA	GAAATAACTA	TACGTCTGCT
185101	TATTTGAGCA	GTCCATACTG	CTGCTCTGCC	TATGGAGTAG	CCATTCTTTT	CTTTTATTTT
185161	TATTTTTTAG	ATAAAGACTC	GCTCTGTCAC	TCAGGCTGGA	GTCTGGAGTG	CAGTGACGTG
185221	TTTTGGCTCA	CTGCAACCTT	CACCTCCCCG	GTTCAAGCAA	TTCTCCTGCC	TCAGCCTCCC
185281	AACTAGCTGG	GACCACAGGT	GGGTGCCACC	ATGCCTGGCT	AAATTTTGTA	TTATTAGTAG
185341	AGATGGGGTT	TCGCCATGTT	GGCCAGGCTG	GTCTCGAACT	CCTGGCCTCA	AGCGATCCAC
185401	TTGCCTTGCC	CTCCCAAAGT	GCTAAGATTA	CAGGCATTAC	CCACTATGCA	TGACCCATTC
185461	TTTTATTTCT	TAACTTTTTT	TTGTTTTTTT	GAGACAGAGT	CTCACTCTGT	CACCCAGGCT
185521	AGAGGCTGGA	GTGCAGTGGT	GCGATCTTGG	TTCCTGCAA	CCTCTGCCTC	CTGGGTTCAA
185581	GCGATTCTTC	TGCCTCAGTC	TCCTGAGGAG	CTGGGACTAC	AGACATGTGC	CACTACACCC
185641	AGCTAATTTT	GTATTTTTAG	TAGAGACAGT	GTCTTGCCAT	GTTTGTCAAG	CTTGTCTCGA
185701	ACTCCTAACC	TCAAGTGGTC	TGCTTGCCCTC	AGECTCCCAA	AGTGCTGTGA	TTACAGGCAT
185761	AAATCACTGC	GCTCGGCCCT	TCTTFACTTT	CTTAATAAAC	TTGTTTTTAC	TTTACTGTAT
185821	GGACTAGCCC	CAAATTCCTT	CTTGTTGAG	TTCCAATAAC	CCTTTTGTGT	GTGAAAGAAT
185881	TTATGGCTGC	TGTTCAAGCT	GGAGCAAGCT	GGAGCTCATG	CTGCTGCTCA	GACTGGAGCA
185941	TGCGTGATCT	GTGATCCCAG	TAAGAGGATC	ATGGTCACTC	CAGCCTGAAC	GACAGCATGA
186001	TATCTCATCT	GTAAGAAAAA	AAAAATTACT	AGAGGGCTTT	AACAGCAAAT	TTGAGCAGCA
186061	AAAAGAAGTA	ATCAGTGAAC	TCAAAGATAG	GTCAATTGAA	ATGATCTACT	CTGAAAAACA
186121	GAAAGAAGAC	AGAATGAAGA	AAAAGAAATA	GAGCCTTAGA	GACAGGGGAT	ACCATCAAGC
186181	ATACTAATAT	ATGCATAATG	GGACTCCTAG	AAGGAGAAAA	GTGAGAGGAC	AGGGAGAGAG
186241	AATGTTTGGA	GAAATAATTT	CTCAAAGCTT	CCCATGTTTG	GCAAAAAAAC	ATTAACCTGC
186301	ATACATATTT	TAGGAGCTCA	ATGAATTCCA	AGTAGGATAC	ACTCAAAGAG	ATCCATACCT
186361	AGACACATCA	TAATCAGATT	ATCAAAAGAT	GAAGAAGATG	AATCTTGAGA	GCAGAAAGAA
186421	AGGAACAATT	CATCACATAC	AAATAGTACT	CAAAGATGT	CTGGAGTAGG	TATACTAATA
186481	TCAGACAAAA	TAAACTTTAA	GATAAGCATT	GTTATAATAA	ATAAAGAAAG	GTATTTTGTA
186541	ATGATAAAAG	TGTCAATTCA	TCAAGAAAAC	ATAACATTAT	AAACATACAT	GCACCTAACA
186601	ACAGAGCCCT	AATATTCATG	AAACAAAAC	GACAGAATTG	AAGGGAGAAA	TAGAAAATTC
186661	GACAATAATA	GTTGGAGACA	TCAATACCTC	ACTAGTTAGA	CAAGATCAAC	AAAAAAATAG
186721	AAGACTTAAC	ACTTGAAAAC	ACCTAACCTG	ACCCTAACAT	AAATCTATAG	GTCCTACAC
186781	CCCAAAACAG	CAGAATAAAC	ATCCTTCTGA	AGCTCACATG	AAACATTTT	CAGGATAGAC
186841	TGTATATTAC	TTCATGAAAT	AAGTCTCAAT	AAATGTAAAA	GGACTATAAT	AATAGAGTAT
186901	ATATTCTCTG	ACCAAAGTGG	AATGAAGATA	GAAATCAATA	ACTAGGCTGG	GCGTGATGGC
186961	TCACGCCTGT	AATCCCAGCA	CTTTGGGAGG	CCAAGGCGGA	CAGATCACGA	GGTCAGGAGT
187021	TTGAGACCAG	CCTGACCAAC	ATGGTGAAAC	CCTGTCTCTA	CTAACAAAAT	ACAAAAATTA
187081	GCCAGGCCTG	GTGGCATCTG	CCTGTAGTCC	CAGCTACTCG	GGACACTGAG	GCAGGAGAAT
187141	CACTTGAACC	CAGGAGGCAG	AGATTGTAGT	GAGCTGAGAT	CGCGCCACTG	CATTCCAGCC
187201	TGGGAGACAG	AGCGAGACTC	CATCTCAAAA	TTAAAAAAA	AAAAGAAAAC	AGAAAAATAA
187261	GAACAAATCA	AACCCAAAGC	AAGCAAGAGG	AAAATGAAAA	ATTTCAAAGC	AGCCAAGAAC
187321	AAAAGGCACA	TTATGTACAG	AAGAACAAGT	GTATAGATCA	CATATTTCTC	ATAGACACAA
187381	TATAAGCAAA	AAGACAGTGG	AGCAAAATTT	TTTAGATTAA	TGAAAGACCT	ACAATTCTGT
187441	ACCAAGCAAA	AAAACCTCCC	CCAAATGAGG	GTGAAATAAG	ACAATTTAAT	ACAGAGAAAA
187501	GAGGAAGGAA	TTTATCTAGT	CATATGTGAG	AGTTTTATGA	TACATTTTGT	ACTGTATATG
187561	TGGATGTTTT	CTATTTTCA	TAAAAATCA	ACCGTGCAAT	TAAATGGTAG	ATTGTCTTGC
187621	TTCTTTTTGA	TTGACACAGT	CATTAACTAA	AATATTGTAG	TATTTTTTTA	TCTCCCTGCC
187681	TAAAGGCAAT	AAACATCTAA	TCAGCAGACT	AGAACAATAA	AAAATATTTT	TTAAAGTCC
187741	TTTAGGCAGA	ATGATAAAAG	TCCCTTAGGC	ATATTGAAAT	TCCTATTTAT	ACAAAGGAAT
187801	AAACAGTACT	AGAAATTGTA	ACTATGTGAG	TAAACAGATA	ATATTTTTTC	TCCATAAAAT
187861	GTGGTTGACT	ATTTTCACAA	AAATAGTTAA	CAATGTAATG	TGTGATTTAT	AGCATTTAAA

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187921 AGTAAACAG GCCGGGCACA AAGGTTCTGT CCTGTAATCC CAGCACTTTT GGAGGCCGAG
187981 GCGTGCAGAT CACTTGAGGA CAGGAGTTCA AGACCAGCCT GGCTAACATG GCAAAACCCC
188041 ATCTCTACTA AAAATACAAA AATTAACCAG GCGTGGTGGT GCACGCCTGT AATCCCAGCT
188101 ACTCTGGAGG CTGAGGCACA AGAATCACTT GAATCCAGGA GGTGGAGGTT GCAGTGAGGC
188161 AAAATTATAC CACTGTGCTC CAGCCTAGGC AACAGAGCTA GACTCTGTCA CACACACACA
188221 CACACACAAA AGAAAAGTGT ATGACAACAA CAGTGCAAAA GAAGCGGAAA TGAAAATAAT
188281 GTTATTTTAT ATAAGTGGTA TACTTTTAGA TGAACACGA TAAATTAATG ATGTATACTA
188341 TAAACTCTAA GGCAACCACT GAAATAATGA AACGAAGAAT TATGGCTAAC AAGCCACAAA
188401 AAGAAATAAA ATAGAATGAG AAAAAATATT TAAGTTGTTT AACAGATGGG AAAAAAAGA
188461 GGAAAAAGAG AACAAAGAAC AGATGGGACA AATGGGAAAAG TAATAGCAAG ATGATAGACT
188521 TAACTCTACC CATATAGATT ATCACACTTA AGGTAAATGA TCTAAATACT CTAATACAAA
188581 AGCAGAGGTT GTCAGATTGA ATTAAAAAAA CAGACAACAA CAAAAAAG CAAAAAAGA
188641 GCCACAACAT GCTGCCTACA AAAAATTCAC TTAAATATAA AGACACAAAT AGTCTAGAAC
188701 ACCATCACTT TTAACCTTAT TTAATCAAC CTCCTAACTG ATCCCTATTT ATTTATTTAT
188761 TTATTTATTT ATTTATTTAT TTATTTTGA GACAGAGTCT GACTCTGTTG CCCAGGCTGG
188821 AGTGCAGTGG CACCATCTAG GCTCACTGCA GCCTCTACCT CTCGGGTTCA AGCGATTCTC
188881 CTGCCTCAGG CCTCCCAAGT AGCTGGGACT ATAGCACATG CCACCATGCC CAGCTAATTA
188941 TTATATTTT AGTAGAGACG GGGTTTTGCC ATGTAGGCCA GGTTGGTCTC AAACGCCTGA
189001 CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCCA CAGCACCCAG CTCCTCTTCA
189061 TTTATCTCTG CTACGCTTCC TCCAATCCAT TTTGTGCATT TGATGATTTT GCCAGTAACT
189121 TCTTTATTT TCTGGTAAA TTAATTTATG GTCACTGAGG ACTGGGATGT TCTTCTTCT
189181 AGAGGGGGTT TGTGTCTGCT TTTGCCAGGA AGCTGGGGTA CCACCAGTCA AGTATTACTT
189241 TAAACTCAAT TCATGAATTG AGACTTTTTT TTTTTTTTTT TTTTTTACGC AGATCTCTAC
189301 TCTGTACCCC AGGCTGGAGT GCAGCGGTGT GAACATGGCT CACTGCAGCC TCAACCTACT
189361 GAGCTCAAGC AATCCTTCTG CCTCAACATT CTGTATAGCT AGGACTACAG GTGTGTGCCA
189421 CCATGCCCTGA CTAATTTTTT AAATGTTTTT TTTAGAGATG GGGCTCACTT TGTGCCCAG
189481 GCCGGTCTCG AGCTCCTGGG CTCAAGTGAT CCTCCACCT TGGTCTCCCA AAGTGCTGGG
189541 GTTACAGGCA TGAGCCTCTG TGGCTAGCCA AGACTTTTTA TTTTTTAGCC TAAATGTGA
189601 TAAAAGTTGG CTTGTGGTTA CAACCTATCA GGATTGATGA TCTCTCTCTC TCTCTCTCTC
189661 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
189721 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTATCAT CTTTTGGGAT
189781 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAATCT
189841 GGACTTTCAT TTTAGACTTT ATTTGTTTTT TACTATAAGC AATTTAAGTT ACAGATCTCT
189901 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTTGATGTG CTTTATTGTC ATTATTATAT
189961 AGTACAATGT ATTTTGTAAT TTTTGTGAT TTGTTTGGAG AGATTGATTA ATTAGAATGA
190021 TGTTTAATTT CCAATATGT GTGTTTTTTT CCTACATTTT TTATTTTAT TGATTTTCAA
190081 TTTATTTCTA CTGTAGTCAG ATTTAATAAT TCATTTATTT TTATTTATTT CATTTTTTTA
190141 GAGACAGGGC CTTTCTGTGT TGCCCAGGTT TGTCCCAAAC TCCTAGTCCC AAGCAGTTCT
190201 CCTGCCTCAG CCACCCAAAG TGCTGGGATT ATAGGCACGA GCCACCCGTG CACAACCAAC
190261 AATTCATTTA AAAAGTGGGC AAGTGAAGT AACAGACATT TCTCAAAGA AGGCATACAA
190321 TTGGCCAACA AATATATGAA AGAATGCTCA ACATCACTGT ATTAGTCTGT TTTCATGCTG
190381 CTAATAAAGA CTTAACCTGA GACTGGGGAA TTTACAAGAG AAAGAGGTTT AATGGACTTA
190441 CAGTTCCACA TGGCTGGAGA GATCTCACA TCATGGTGGA AGGCAAGGAG GAGCAAGTCA
190501 CATCTTACAT GGATGGCAGC AGGCAAAGAG AGAGCTTGTG CAGGGAAACT CCCGTTTTTA
190561 AAACCATCAG ATCTCGTGAG ACTCATTAC TATCATAAGA ACAGCATAGG AAAGACCCGG
190621 CCCATAATTC AGTCACCTCC CACTGGGTTT CTCCCAGGAC ACATGGGAAT TGTGGGAGTT
190681 ACAATTCAAG ATGAGATTTG GGTAGGGACA CAGCCAAACC ATATAAATAA CTAATCATCA
190741 GGGAAATGCA AATCAAAACC ACAATAAGGT ATCATCTCAC CCCAGTTAGA ATGGCTATTG
190801 TCAAAAAAAC AAAAAATAAC AAATGCTGGT GAGGATGTAC AGAAGAGGGG ACTCTTATAT
190861 CCTACTGGTG GAAATGTCAA TTAGCATAGC CATTATGCAA AATAGTATGG AAGTGAGGTA
190921 GGTTACATAG GGTGGTCACA GCCTCCCTTG AAAGGAAACA AGAACTTGT CAAATTGATG
190981 GAGAGAACAA ATCTCTTGAC ATTACACAAA CTGCATCTGG GGCTAGTGGT TAGAATATCC
191041 TCAGTCAAGG AGGTAGAAGA GCAGGAGGGA AAATCCCTAA GTTCGTGCAA GTGCAGAAAC
191101 CCACAAGCTG TGTCTCAGG TTGACATATA CTCATTTTAA TAGTAAGAAA CACACCCTTG

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191161 GGTAGAGAAT TAAAATGCTA ATAATACATG TGATGTATGT ACTAGCGTGT ATGGCAATAT
191221 TGCATGCACA TTCAAGAGAC CACCCAAAAC ATATTTAACA ACAATGCCCA TTCCCACCCC
191281 CTCATGGATA ATCACGTAGG ACTCCCATAA CGGGAGTTTC TTCAGTGTCA ATTGGTGCTG
191341 AAGTAGCCGA CCCTGACTCT GCTATCAGCG TGTACTTTCA CCTTGCAATA AACTCCTTTG
191401 CCTACTTTTA CTTTGGACTG GCTTTCAAAT TCTTTTGTGC AGGGAATTCA AGAATCTGAA
191461 CCAGCCCACT GACAACAGAG GTTCTCAGA AACCTAAAA TAGATCTACC AGATGAGGCT
191521 GAAAATCTGC TACTGGCTAT TTATCCAAAG GGAAGGAAAT CAGTATACAA AGAGACACCT
191581 ACATCCCAT GTTTATTGCG TCACCTTCA CAAGAGCTGA TATATAGAGT CAACCCTAAA
191641 TGTTCAATTAA CAGACAAATG GATAGAAAAT GTGGCATATA TACACAATGA AATACTATTT
191701 GGCCATGAGA AGAATGCAAT CTTGTCAATT GTGGCAACGT AGATGAAACT GGAGAACATT
191761 ATGTTAAGTA AGATAAGCTA GGATTGAAA GATAAATACT ACATGTTATC ACTCATATGT
191821 GAAAGTAGAG AAAAATTTTT AGCTCATGGA TTTAGAGAAC AGAACTGTGG GTACCGGAAG
191881 CTGGGAAGGG TAGCAAGGAG GGGAGGATAG GGAGAGGTTG GTTAATGGTG ACAAATTAC
191941 AGCTAGATTG TAGAAATGAG TTCCGGTGTT CTGCACCATT GTAGGGTGCA TATGGTTAAC
192001 TCTCATTTAT TGTATATTTT CAAAAGCTA GAAAAGAAAT TTGAATACTC ACAACAAAAT
192061 AAATGATAAA TGTTTAAGGT GATGGATATA CTAATTACTC TGATTTGATT ATTACACATT
192121 GTGTACACAT ATAAAAATAT CACTCTTTAT CCCGTATATA TGTACAGTTA TTATATGTCA
192181 ACTAAAAATA AAAGAAAAAA AGAATATGAT CTATCATGAT GTATATATCA TGTGTACTTG
192241 AGCAAAATGT GCATGCAGAT ATTGTGTATA ATGTTCTATA AATCAATTAG CTCAAGATAA
192301 TAGATAGGAT TGTTCAAGATC TTCTGTGTCT TTAGTGATAT TTTGTCTAGT TATTGCATCA
192361 TTACCAAAAA AAGGGTGTTA AACTCTCCAA ATGTGATTGT AGAATTGTCT ATTTTGTCTT
192421 TTCTTTTCCA TTTTACTTTT ATGTATTTTG AAACCTGTT ATGACATTTT GCTATGTATT
192481 TTAAAACTTC GTTATGTATT TTGAACTCT GTTGTTAGAA TCATACATTT ATGATTATTA
192541 TGTTTTCTTG ATGAAATGAC CCTTTTCTAT TGTCGTTGTT TTTGTTTTTT CTGAAATGGA
192601 GTCTCACTCT GTTGCCGAG CTGGAGTACA GTGGCACAAT CTGGTTCCAC TGCAACCTCC
192661 ACCTCCTGGG TTCAAGCGAG TCTCCTGACT CAGCCTCCAA CTAGCTGGGA TTACGGTCAT
192721 GTGCCAGCAT GCCAACTAA TTTTGTATTT TTATTAGAGA CAGAGTTTCA CCACGTTGGC
192781 CAGGCTGGTC TCGAACCTCT GACCTCAGGT GATCCGCCCA CCTCGGCATT TTTATTTTAT
192841 TTTATTTTTT TGAGACAGAG TCTCACTCTG TCACCCAGGG TAGAATGCGG TGGTGTGATC
192901 TTGGCTCACT GCAACCTCCG CCTCCTGGGT TCAAGCAATT CCCATGCCTC AGCCTCCCGA
192961 GTAGCTGGGA TTACAGGCAC ATGCCACCAT GACTGGCTAA TTTTGTATT TTTAGTAGAG
193021 ATGGGGTTTT TCTATGTTGG CCAGGCTGGC AACTGACTCC TTTAACAATA CAAAATATCA
193081 CTCTGTCTCT GGTAACTCTC TCTGTCTTAA ACTCTATTTT AGCTGTTATT ATTATAGCCA
193141 TTTTAGTCTT TTTATGCTTT CTGTTTGCAT AGTGTATATA TTTTAATATG TTTATTCTCA
193201 AGTTATCTGT GTTTTATAT TTAAGATGTT TCTCTCTAG CCAACGTGTT TGGTCTTGC
193261 ATTTTAAAGT CGATTCTAAC AATCTTTGCC TTCAATTGA AATATTTACA CCATTAAACAT
193321 CTAACATTAA CATTTATTTT TCTTCCACA GTACACTGGC TAGCATCTCC CATATAATAT
193381 TGAACATAAA GTGTGATAAC TGACATCCTT ATTTCAATCC TACTCTGAGT GGAAAGGGCA
193441 GGGGTGGAGA AAGCATTCAA CAATTGGCCA TAATTATAAT TCTTTTGTGTT AACTGTTTTT
193501 CTTCTGCATT AAAAAATATC ATTACATTTT GCATGAATTA TTAGGAGAAA ATATTTTCCA
193561 ATTTTCTTGG AAAATGCCAT AACCAGTCT CTCAATTTG TTTCCATCTT TCTCCACAT
193621 TTTACATAAC CTACATAAGA GACACATTAT CAAGTATATT TTACATGGCT TCTCAGTGTC
193681 TTCTCTGTCT GCTAACAGGT TTACCAAGAG ATGGCACTCT TGTATTTCTG TGGGCTATGT
193741 CCATATCGTT TTGCCTTTAA GACAGCGTAA CTACTTCTTT CACCAGTATT AAAGACATGT
193801 ACATTTGATC TGGTCTTGT GGATGATTTT AAATGACTCA AGCTAATAAT CCTAATTTTA
193861 CCTAAACACT CCATTATTTT AAAATGTATT CCTTTATGCC CACAATAAAC ATTTATTGAC
193921 ATTAGGCTGG ACATTAGGCT TCTCTATGGC AGACATTAGG CTGGACCCTA GCCATATATC
193981 TATTGAGGGA AAAAAATTA TTTTCTATAT AAGTTTCCAG AAAGCCAAGA TGTGTTTTAA
194041 AAACAAAACA AAACATTACA TTCTAAATGC TGTAACAAGA TAAGAAAAAG TGTGAGGCT
194101 GAGAGAAGAA CAAAGCAGCA AGCAACTCCT GGAAGGACCA CTGCTGCAGA GGTAAATACT
194161 GGTGAACCAT GTTTTGGAGA AGGAAAAGGT CACCAAGAGA AGGAGGGGGT CCAGGGTGT
194221 CAGAAAGATT GCATGCATAA AGATCAAGGG TAATAAAAAA AATTCCGTAT TATGTAAATG
194281 TGAAGTTCCA GGACCATGAG CTTGGAGAGC ATGAAGTACA GGAGGAGGGT TGGTTTCAAA
194341 TAAATCTGGG AATGAAACAG TGAAGCCTCT GGCAGAACTC ACATCTCTTT CCTCCCCTCT

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194401	TCCTTGACACA	TTCCCTTTAT	GGAGTAATTG	CAGGGATGGG	AAAAGTTCAA	AACCACCACT
194461	GAGCCTAGGA	AGTGCTAGGG	TAAAGTGGAG	AATGAACCTG	CGTGATTTGC	TCATCCTAAA
194521	CTAGGTTCTT	CTAGGAGAGC	CCTTCCCCAT	AAAATCTGCC	CTCCTCGAAG	GGGCCCAGAC
194581	AGCCTAAGCT	CACCTCCCAA	AGACCCCTTA	CTTGCTGACT	GAATCTGATT	CCACCCAGAC
194641	ATGGCCATAA	ACCCTTCCAT	AACCTATATAG	CCAAATTCAA	TTTTAGACAG	GCCTCATACC
194701	AACCTTTCTT	CCTCTAAGTC	TGCCACCCTA	GGCAATTCTC	AACATTCTCT	ACACACTTTG
194761	GGGCCATAGA	CGTGCTACCA	AGTCTCCAGA	CCTAGACCTG	ATGGAGCAGT	GCTGTAATGA
194821	GACGACCACT	GGCCTTTGAA	CCAGACCCTT	CTCTGTGGCT	CCTATGCATC	TCCAACCTGT
194881	TTTGAGCACT	GCTGCCAAGA	CATCTTTGGC	ACTTTGTTGT	GAAGTTTTAA	AACCTGAATA
194941	ATCTACAAAA	CACCTAACCT	TTAAAAATTC	ATTGTCATTT	CATATCATGA	AAGATAAAGA
195001	AAGGCCAGGA	AAGTGTTCCT	GGTTAATAGA	GACTAAAGAG	ATAGCAACCA	AATGCAATTT
195061	GTGATCCTGG	ATTGAGGGGA	AAAAGTGTTC	TCAGAGACAT	GATTGGGACA	GCTGGTAAAA
195121	TTTGAATTTG	AATTTAAAGA	TAAAGTATTG	AGTAATATAG	GAAGATGATT	ATCTGCAACT
195181	TTCAAATGTT	TCAGTAAGTA	TATATATATA	TAAAGAGATA	TAAAGACATA	TAAATAAATA
195241	GATGGATAGG	TAGAGAAAAA	GCAATGTAT	AATATTAACA	ATCTAGGTAA	AAAGTATATG
195301	AGTGTCTCTT	GTACTGTTTT	TCTGATTTTT	CTATATGTTT	GAAATCATTT	TAAAATAAGA
195361	AGGTTTTTTG	GGTTTTTTTG	TTTGTTTTTT	GTTTTTAGAG	ACAGCATCTT	ATTCTGTCAC
195421	CCAGGCTGTA	GCTCAGTGGC	CCAATCATTG	CTCACTGCAG	CCTCAACTTC	CTGGGCTCCA
195481	GTAATTCCTC	CTACCTCAGG	CTCATGAGTA	GCTGGTACTT	CAGGTGTGCA	CCACTGCACT
195541	CAGCTAATTT	TTATTTTTTA	AATTTTTGTA	GAGATGGCAT	GTTGCTATGT	CACCCAGGCT
195601	AGTCTCAAAC	TCCTGCCCCC	AAGTGATCCT	CCCCTTTTGG	CCTCCCAAAG	TGCTAGAATT
195661	ATAGGCATGA	GCCACTGCAC	CCAGCCCCAA	ATAAAAAAGT	ATTTTATTTT	AATTAATAAA
195721	TTAATTTTGA	GTCAGAGTTT	CACCCCTTGT	ACCCAGGCTG	GAGTGCAATG	GCATGATGTT
195781	GGCTCACTGC	AAACTCTGCC	TCCTGTGTTT	AAGCGATTCT	CTTGCCCTCAG	ACTCCTGAGT
195841	AGCTGAGATT	ACAGGTGCCT	GCCACCATGC	CCAGCTAATT	TTTATATTTT	TAGTAGAGAC
195901	GGGGTTTCAG	CATGTTGGTC	AAGCTTGTCT	CAAACCTCTG	ACCTCAGGTG	ATCCACCCAC
195961	CTCGGCCCTC	GAAAGTGTTC	ATGAGCCACC	ACACCCGGTC	TAAAAAGTAT	TTTAAAAACCA
196021	CAGTCCCACT	CTACCTTGTC	CTACACTACC	AGGGGCTAGG	ATCACCCCAT	GTCTTCTAGG
196081	CTATGAGATA	GAGGAATCCA	AGGAAGAAGA	TAAGCTACTT	GGTTCCTCTA	TAGGGTCTTG
196141	TGTGTGCTCT	CATGTGCTCT	CTCTCTCTCT	CTCTCTCTCA	CACACACACA	CACACACACA
196201	CACACACACA	CACACACATG	AATACCAGAG	CTATCACTTT	CCCAGTCTAG	TACTCATCTC
196261	ATCCCAAGGG	TTTTGTGTTG	TAGTGGTTTG	CTCATTTGTT	TGTTTTGTTT	GTTTGCTTGG
196321	ATTATTCTTT	TTCTCTTTTT	GCAGCTGAAG	GGAGAATTTT	CAGGCCAGCC	CTTTGGCCAT
196381	TAGAGTTACA	GTGCCTCTAT	TCAGGCTTCA	TAGAGAGACC	TGGGATTTCAG	TAGTGGGGGG
196441	CTTTTATCCA	GTTCAAAATA	ATGCATTCTC	ACCAAGATGT	ACTTTGAAAT	AAAACAATAC
196501	TAAAACACAA	AATTTTATTT	ATGCTGAACA	TGAATCACT	TTTTTCTGTA	TTTTGTGTAG
196561	AAAGTTATAC	ACACACAAAC	ACATTTGCTC	CTGCTTTGTT	TATTGGCCCA	GGGGTATGTT
196621	TGGTAATACT	TCATCAGGCA	TGAGTAGTAC	GTCTTGGAAG	GTGTGGTCTA	AAGCCTAGAC
196681	TCCTATCTGC	TTCTTCAGC	ATTCTCCAGT	GTATCTGTCA	TCTGTCTACC	TAGGATGGG
196741	GTCTCCAGAA	CTTCCATTCA	CATTTAGAAG	AGGGCAGCGG	CTTTCTATGG	AAAATATGAA
196801	CTCTCATTCA	TCTCTATTCC	TTCTTCTAGC	TATGGTCCAG	CTCAGCTGTT	TGGAATAAAG
196861	TATCTATATG	AAGTCTGCGA	ATGGTTCTCA	GACTGGTTGA	ACATTAGAAT	CACCTGAGTA
196921	CCTTCTAAAA	TTCTTATTAC	CCAGGGCATA	TCTCAGAATG	AGTACCACAG	GGTAGGGATA
196981	GGATTAGGGA	TCATGATCTC	TGGAGTCTGG	TTTAGGCACT	AGTGCTGTTT	AAAACCTACG
197041	TCATGAGGTG	GAGGTGTCAG	TGAGCCGAGA	TGGCGCCACT	GCACTCCAAC	CTGGGCGACA
197101	GAGTGAGAGT	CTGTCTCAAC	AACACAAAAC	AAAAAAAACC	AACTACCCTT	GTGATTTGAA
197161	TGTCCATCCA	AAATTGAGAA	CCATTAGGTA	AGGCCAAGCT	GTATAATTAA	AGAGCAGTTT
197221	TCATTTGTCT	GGTGTGGTGG	CAGCTTTTTG	ATAAGGGAAG	TATTGTTGCC	ATCCACATAC
197281	CTGAGCCTCA	CTCCTGAGAA	CACTGGTGTG	TATGTTGCTA	AAATTCCCCA	GGTGATTCTG
197341	AGGTTCCCTC	CTGGATAAAA	ACCACTGACC	CTGGGAATGT	ACCCACTGCC	AATCTCCTGC
197401	GTAAACCTTG	GATACTGGGA	AGCCTACAGT	TGAAAATATT	GGGCTTGAGA	TCCTGAAACA
197461	AATCTTGAT	TTTCTTAAGA	CTAATATTTG	GTACAGTGCA	GCAAATCAAG	GGAATTTTGG
197521	TGGCTGAGTT	CTTTTAGAAC	TTTTGCATTG	AAATAGGTTT	AAGCAGCAAT	AAGTTAAAAAC
197581	TACAACCTCA	GCTAAAGGAT	TAAAAGACAC	GTGAGCTGGG	TAGGATGAGG	TCTAAGATTG

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197641	GGTGTGGCGG	CTCATACCTG	TAATCCCAGC	ACTTTGGGAG	ACTGAGGTGG	GTGGATCACT
197701	TGAGGTCAGG	AGTTCAAAC	CAGCCTGGCC	AACATGGTGA	AAACCCATCT	CTACTAAGAA
197761	TACAAAAAAA	TTAGCTGGGC	GAGGTGCCAG	GCACCTGTAA	TCCCAGCTAC	TGGGGAGGCT
197821	GAGGGAGGAC	AATCACTTGA	ACTCAGGAGG	CAGAGGTTGT	AGTGAGCTGA	GATCGCACCA
197881	CTGCACTCCA	GCCTGGGTGA	CAGAGCAAGA	CTCCATTTAA	AAAAATAATA	ATAATAATAA
197941	CAATAATAAT	AATTCAGACA	TATCCAGGCA	TCAAACAGAT	ACCTGGGGCA	GATGAATAGT
198001	CTTGAGATTG	AAGTCACACA	TGAAATTTAG	GTGGAAAATG	ACATTGGAGA	AATTTGAGAT
198061	TATGATGAAT	GGAAATTTTT	CAAAGAGGAA	TTTCAGGCTC	TGTTCTTGAG	GGGATAGATG
198121	GACTTCCAAC	AGCAATAACA	CAGGATTAAT	GAGGACTTGG	GATGTTACAT	AAATTAGAGA
198181	TGTTAGATGG	ATAAAGAGAT	AAAAGTACTC	TCTCTAAGAA	CATGGGACCA	GAGATAGGCT
198241	CACTTCTAAC	CATCAGATAT	AACTAGCAGA	CTAAACGGTC	TAAAAATAAA	AATCATGCCC
198301	CACTCCTGCT	TAAGACATTT	TAATTACTCT	CAGTAACTCT	TCAGTTTTTC	TACTGTGTTA
198361	TCTTTAACTA	CAGGGTTGGT	CTGGGTGTGC	AACACAAGAA	AGCCTGGCAT	ATACATGGAT
198421	TCAAGTGTAT	GCCATGTACA	GGTATTCTTT	CATGTACTAT	TTCATGTATT	CTTTTTTACA
198481	TCTGTTTTTT	CCTTCATTGA	AGTCAATGGC	TGATATTAGA	TTCTACTATT	CATGTGTACT
198541	AGTTATATAT	AATTGTTACA	AAACAAATTA	GCAAAAACCT	AGTGGCTTAA	AGCAACACAC
198601	ATTTATTATT	ACCTAAGGTC	TGTGGATAGA	AGTTCTGACA	TGGCTTAACT	GGGTTCCCTG
198661	CTTCAAGCCT	CATGTGGCTG	CAATCCAGGT	GTTGGGTGAG	TCTGAATTTCT	CATCAGAGGC
198721	TTGATTGTGG	AAATTTCCAC	TTCCAAGCTC	CCTCAGGTTT	GTTGAAAAAT	TCAGTTCCTT
198781	GCACCGGTAG	AAGCTTCTTG	GTAGAGGCTG	ATTCAACTTC	TAGAGGCTGT	CTGCAGTTCC
198841	TGTCACCAG	GGTGGAGTGC	AGTGGAGCAA	TCATAGCTCA	CTGCAGCCTT	GACCTCCCAG
198901	AATCAATCTG	TTCTCCCACC	TCAGCATCCT	GAGTAGCTGG	GACCACAAGT	GTGTGCCATC
198961	ACACCTGCCT	AAAAACAAA	CAAACGAAAA	AAAACCCCCA	GAGAACTTTG	TAGAGACAAG
199021	CTGGTCTGGA	ACTCCTGCGC	TCAAGCAATT	CTCCTGCCTT	AGCCTAAAAG	TTCTGGGATT
199081	ATAGGTATAA	GCCACCATAC	CTGGCATATG	GCAAGTCTTG	AGCAGGACAA	ATACAGATGA
199141	TTTATGTCTG	TCTTCCATGG	TATTCTAGGT	TATTGTTGAG	ATGGTCCCTCT	ATTGCTTGT
199201	TCCATCTATT	GATTAGATAA	AACGTTGTTT	CTTCTGTTAT	TTTTCAACAG	TAGCTTTTAT
199261	GTGTCTCTCT	TTATCTTAAA	ATTCTAACCA	AAGAGCTGCT	CTTTCTTGG	TGTACTTTAC
199321	CTTTGGTTGA	TCCTTCTTAA	CCTCTTCTTG	CCCTCTGGGG	CCTAAGATGA	GGGCTGTTAT
199381	CAGATGTGAG	TCTATGGGAA	AGCAAGCAAG	AGGTTCTTCA	GCCTCCGTTT	AGCCTTAAAT
199441	GTCTAGGTAG	AAATCAGTCA	TGGCCCTTCC	AATGTGGTAC	AGACCAGATC	ACAGAGACAG
199501	GGGTCTCAGC	CAAGGTCTTG	TGGCCTAAGC	CTTATAGAAA	TAATGAGTGT	TTACTTACTT
199561	GGAGAACTCC	CTTGGAATAT	CTTTTTTTGT	GAACCTGAGG	CAACTTTTGG	TGATTTCTTG
199621	ATGTCTTGGG	AATCTTGGTC	TAGAGCCATT	TCAACCTGAT	TTCTTTTCAT	GTCAGTGGCA
199681	TTTTGTGACC	AGATAGTAAA	TAAGTTCTAT	GATGTTCACT	CAGAGAAAATA	CAATGACTTA
199741	TGATGTGAAG	CTTCTGTGGT	TCAGCCCTTA	CTTCATCTTC	ATTCCCTCTT	ATCTGCATCT
199801	GTCTCCTGCT	TGGGAACAAA	AGTCTGGCTT	CATTCTATGA	CCCCCACGTT	GAGTTTCTTA
199861	GTAGCACTTA	CTTTTCAATT	AGGAGTGTCC	TCATTCTAT	CCATCAGACA	TAACTAGCCG
199921	ACTAAACAGT	CTAAATATAA	AAATCATGTC	CTACTCCTGC	TGAAAACATT	TTAATTACTC
199981	CCCATCATTT	AATTTTTTCT	ACTGGGTTAT	CTTTAACTTC	AGAGTTGGTC	TTGTGTGCAA
200041	CACAAGAAAA	CCTGGCATAT	ACATGGATTG	AAGTGTATGC	CACGTGCATG	TATTCCTTCA
200101	TGTACTATTT	CATGTATTCT	TTTTCACATC	TGTTTTTTCC	TCTAAAATTT	ATTTCCTTTT
200161	AAAAATGAAA	ATTTTGCAAT	TGACTAAATT	TGTCAAATTT	AGTCAAATTT	GTTTAAACC
200221	ATTTTTAAAA	TGTTTCCCGA	AGTTTTGAGT	GAAGTTAGTA	CTTCAGAAAA	ACTGTTTTGT
200281	ATTTTTCATG	TGACCTCAGT	GCACTGCTGT	GCATTTCCAT	TTCTGCGTCC	ACACACATTT
200341	GTTTTGAGGA	AATATAGGAA	CGACAAGATA	AAGTTCAAGC	TCCTGGACAT	TGCATAAAAG
200401	ACCGTCATGA	CCTGGTCCTG	TTGACTTCCC	TAGATTTCCC	GCTATTTCTT	AAGTTGAGAT
200461	TTTTGGTTTG	GATGCTTTGT	GTTTTCTTAA	AATCAAATA	GGTTTTTGCC	TTTTATGATT
200521	ATACAGTAAA	TAAATGCTAT	TTGTGTGAAA	CTTTAAACAA	TACAAAAAAA	ACCTAAGGAA
200581	GAAAGTCAGA	TTCATCTAAA	AATCCTTGTG	GCCAGAATTA	ACTACCTTAG	TTATTATTTT
200641	CTCTATCTCT	CTCTCTCAAT	GTATATTTGG	TGTAGGTATA	GGGGTGTGTG	TAGTGTGTGT
200701	GTATGTATAT	ATCTGTTTCT	ATTCTGTAT	GTGGATGTGC	ACAACGCATC	CTGCTTTGTA
200761	CACTACAGTA	CTAGCATTTT	TCTAATGTAA	TTCAATATTG	TTGAAAACAT	TTTAAAAAAG
200821	CTTGTATATA	TACACACACA	TACACATACA	TGCATGTATG	TACATATACA	CATACAGACA

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200881 AAAATGTATC CTATGTATAT TCACACATGT ATACACACTC ACACGTACAT AGAGTTTTAC
200941 ATCCATAGTT TATAAATGTT GCTTTTTTTT GGTACCTTT TTGCTAAGTC TTACACTTTT
201001 TTTTTTTTTT TTGAGACGGA GTTTTGTGT CATTGCCAG GCTTAGTGCA GTAGCGCGAT
201061 CTCACCTCAC TGCAACCTCG ACCTCCCGGG TTCAAGCGGT TCTCCTGCCT TAGCCTCCTG
201121 AGTAGCTGGT ACTACAGGTG TGCGCCACCA TGCCTGGCTA ATTTTGTAG TTTTTTTATA
201181 GAGACGAGGT TTCACCATGT TGGCCAAGCT GGTCTGGAAC TCCTGACCTC AAGTGATCTG
201241 CCTGCCTCAG ATTCCCAAAG TGCTGGGATT ACAGATGTGA GCCACTGCAC CCGGCCAAGT
201301 CTTACACATC TTTTTTTTAC CACTAAACTG TTTACCCAAA CCTGATAACC CAAGTCAACA
201361 GCTATTATGG CTCACACAAT CTTATGTAAA CAAAGATACA GATATATAGA ATTTTCTTGA
201421 TTAATATTCA GAAAAAATG GAGTCCCTTT ATACGTCCTT AGTATCTGCT TTAATCATTT
201481 AAAAATGTAT TACATTATAT GAAAGTATTC AGGTCAAATG TTATAGATGT GATTCAATCT
201541 TTTTAACTGT GTTATTTTTC TGCAATGACT ATGTATCACA AAGTACTCAG TCTTCCACTG
201601 ATGAAAATTT GGGCTATTTT CAGTTTGTCT TCCATTTTTC TTTCTTCTCT TTGGATTTTC
201661 ACTCAATGTG TTTACTAATT TAGGAAGAAT CAATAGTTTT TATGGTATTA CTTCTCCCAT
201721 TCAAGAATAT AGCATATGGT ATAGTATAGT AGAGTACTTA GTTTAATTTA GCCAGATCCT
201781 GTTTTCTGCC CTTTAAATAA ATTCTATCAT TTTCTGCCTT TGAGTCACAT TTTCTTGTG
201841 CATATAATTC TTAATAAATG TATAGTTTTT ATTCTAAGGG AACATAAAAA CTTCTTTCCA
201901 TTTCTATTCC TGTCTAGTTA ATTCTACTAT TGGGAAAAGT AACTGTTAAA AAAAATCTTT
201961 ATCTTTCAG TCAGTTCACC ACATTTCTCT TATACCTTTG TACTTTAATC CCCAGTCATG
202021 TTGAACACTT CTTATTCCTC ACACCAAGCC TCAACGGGTT TGCTCTTTCT GGAAGGTGCT
202081 TCCCCTGTAT TACTGACTTA TTCATACCAC ACATGGAGAC TGGCGCAGCC CTGTTCTGCC
202141 TGGGAAGCCT TCCCCTGATA CCCCTAGTTG GCAGGAGTCT TCATTTGTTC TTTTCTAGTC
202201 ACCTGTGCAA GTTTGTATTG TTCATGTTTA TCATCCTTCA TTCTAGTTGT CTGTCTCTAT
202261 GTGTGGTCTC ATTCACTGGA CTCTGAAGTC TTATGAAGTC ATGTCATGGG TCAGATCTTA
202321 ATAAATTAAT ATTGTGGGAA GCTAATGTCA TGTCTAGAAT ACAGAAAATT TATCAAAAAA
202381 AAATATAGTA TGTGGGCTGG GCGCAGTGGA TCAAGCCCGT AATCCAGCA CTTTGGGAGG
202441 CCGAGGCAGG AGGATCACAT GAGGTCAGAA ATTCAAGACC AGCCTGGCCA AAATGGTGAA
202501 ACCTCATCTC TACTAAAAAT ACAAAAAGTA GCCAGGCGTG GTGGTGCCCA CCTGTAATCC
202561 CAGCTACTCA GGAGGCTGAA GCGGGAGGAT CACTTGAACC TGGGAGGCAG AGATTGCAAT
202621 GAGCTAGAT CATGCCACTG CACTCCAGCC TGGGCGACAG TGAGACTCCA ACTCAAAATA
202681 ATAGTAATAA TAATAATAAT AATTGTATGG AATTGAAGTC CTCTGATTGG AAATAGCTGT
202741 TTTTTAAAAA ATTATTATTT TTTAAGTTCC TGGGTACATG TACAGGATGT GCAGGTTTGT
202801 TACATAGGTA AACGTGTGCC ATGGTGATTT GCTGCACCTA TCAACCCATC ACCTAGGTAT
202861 TAAGTACAGC ATGCATTAGC TCTTTTACCT AATGTTCTCC CACACCCCA CCCCATCCTC
202921 CCCCACAGG CCCAGTGAG GTTGTGTTCC CTCCCTGTGT CCACGTGTTT TCATTGTTCA
202981 GCTCCCACTC ATAAGTGAGA ACATGAGGTG TTTGGTTTTT TGTTCTGCTC TTAGCTGTTA
203041 ATGTCAGGCC AGAGAGGCTT AAATTTTTAA GGATCTCTGG ACTTTTCTTC TACATTACTC
203101 TTGATGTTTA TAAATGTTAC AACTTCTTTA ATTTCAATTA ATGTATACCT TATTGAGTTG
203161 ATTTAACTGA GTTAACTTTG TTATATGAAA ATCATGATTG GGAGTGAGGG GGTAAACCA
203221 GCTACAGAGA TCTTGATTGT TGGTGGTGAA GCAATGCAAG AATTCATTCA TTCAGTAAAC
203281 TAATGTTTAT TAAGCGTGTA CTGTCTTAGT CTGTTCAAGC TGCTGTAACA AAATATCATA
203341 AACTGGGTGA CTTATAAACA ACAAAAATTT TATTCTTAC AGTTCTGGAG GTGGGAAGTC
203401 TAAGATTAAG GCCCTGGCAA ATTTAGTGTC TGGTGAGGAC AGGTAGCCAT CTTTTTGCTG
203461 AGTCCTAACA TGGCAGAAGG GTTGAATAAA CTTCTTGGG TTTCTTTTAT AAGGACACTA
203521 ATCTTAGTGA TGAGGTTTCT GCCCTCATGG TATAACTACT GCCCAAAGAC CCCTCCTTCT
203581 AATATTATCA CTTTGTGGGT TAGGATTTCA ACATGAGTTT TGAGAGGATA CAGACATTTG
203641 GATCATAGCA CACACCATAG GACAGACACT GTGCCAAGAA TTGTGGATAT AGTGATTCTC
203701 AAAATGAACA AGATCCCCTC AGAGAGCTTG CAAAATCCAG CTATAAAATT ATGCTTTTTA
203761 AACAAATTAT GCAGTTTGAA AAATCTACTC TGAATCTTAC TTGTGGCATT GAATACTTTC
203821 GGCCACTCTT TCCTTATTAT ATTAAATATT TACTCTTGTG TGGGGGATCC AGTCTCACCT
203881 ACTTTTTCTA CCAGAACTGG TATCAGCTCA TGCTCTGCCT TATGCAAAAT AAGAAAATAT
203941 CATACCTTTT GGGTAAATTA AGCCAAGAAA GTTCTCCTTT CTTCTCTTTC TCTCTTCTT
204001 TCTTTCTCTC TTTCTCTTTC TTTCTTCTC TCTCTTCTT TCTTTCTTTC TTTCTTCTT
204061 TCTTTCTTTC TTTCTTCTT TCTTTCTTTC TTTTCTTTC TTTCTTCTT TCTTTCTTTC

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204121	TTTTCTTTC	TGACAGGGTC	TTGCTCTATT	GCCTAGGCTG	GAGTGCAGTG	GTGCAATCTC
204181	AGCTCACTGC	AGCCTTGAAC	TCCAGGGCTC	AAGCAATCCT	CCTGAGTAGC	TGGGACTATA
204241	GGCATGTGCC	ACAACATCAA	GCTAATTTTT	GCATTTTTTT	GTGGAGACGG	GATCTCCCTA
204301	TGTTGCTAAG	GCTGGTCTTG	GATTCCTGGG	CTTATGCGAT	TCTCCTGCCT	CAGCCTCCCA
204361	AAGTCCTGGG	ATTACAGGCA	TGAGCCACTG	CCCCTGGCCA	TTATAACTAT	TTTCATTGGC
204421	TTATCAGGCA	CATGATAACT	ATAATAAATC	AATAACCAGA	ATTTTTAAAT	AAAGAAAGGA
204481	AGGAATTGTT	TCAACTCTTC	CTGCTACCCC	TCTATCCCTC	AAAAGGGTAG	GCTGAATGTT
204541	GTCCTCCAAA	GATATCCATG	TCCTAATCCC	CAGAACCTGT	AAATATATTA	CCTTATATGA
204601	CAAAAGGGAC	TTTACATGTT	TAATAAGTTA	AGAATTTTGA	GATGGGCAGA	TTTTCTTGAA
204661	TTTTGCAGAT	GGGCCCTAGT	GTAATCACAA	GGGTCCTTAT	AAGAGACAGG	CAGAAGAGTC
204721	AGAATAAGAG	AAAAATACTT	CAAGATGTTA	CACTGCTGGC	TTTAAAGTGG	AGGAAAGGCC
204781	AAGAGCCAAA	AAATGCAGTG	GTCACTACAA	GCTGAAAAGA	AAAAGAAATG	GATTTTCCCC
204841	TAAAGCCTCT	GGAGGGGGCA	CAACCTTGCC	AATACCTTGA	TTTTGGCTCA	GTGAAACCCA
204901	TTTTGGACTT	CTGACCTTTA	GAACGTGAAA	TAAATAAATA	ATTTTGTGTT	GTTTCAAGCC
204961	ATCACAGTTG	TGGTAATTTA	CTACAACAGC	AATAAAATAG	AATTAAATAC	AGAGATCTGA
205021	GGAGTTGAGT	AGGATAAGCC	TACTCCAGCA	GGTTATTTTCG	GGAGTATGGT	GAGACTCACT
205081	AGGATGGCGG	AACTCAATTA	AGGAAGTCTG	AAGCTGATAA	GCCAGAGAGG	GAAGGCTCTC
205141	ACTTCAATTTT	ATAAGGGTTG	CGTCACAGTA	GGAAGATCCA	ATAGCAACCA	CAGTCTCAAA
205201	ATTAATGATT	ACAAATAGGA	CACAATTCCA	AGAGTCGGGA	GCCAAGCAGA	AAATGGATTA
205261	GGGAAGACAT	GGATGATATG	AAACAGGAAG	GAGGGGTACA	AGGCAGCTTC	CTGGGAAGTT
205321	GCCAGGGCAG	TCACAGTTCA	CATTCAATTAG	GCTGTGGGCA	CCAAATGCAT	ATGGAAAATC
205381	TAGCTGACTT	AACTGAACTC	CTGAAGAGGA	ATGAACACCT	CATTTATTGA	GGAGCTACTA
205441	CCAATTAGAA	TATGTATTTT	ATTTGTTCAA	TAACCCCATG	AGTACAGTAA	CACAATCCTT
205501	GCTTTACTAA	AGCGGAAGCC	AATTCAAAGA	GGTTCAGTGA	CTTGTCCAAG	CTCAGGGAAA
205561	ACATCAGGAA	GTGAATATGG	GTCTGACTCC	ATCACTGATT	TCAGGAGCCC	TGCCCTTTCC
205621	TCCACACCAT	GCCCCCTTGC	TTTCAGAAAA	AAAGGCTTGT	TGACTGAATG	GTTGTATGCA
205681	CAGTTCAAAG	CAGAAACACA	CGATGACATC	TTTTGAGATA	CTCTAACAGT	GAGAAGTTGA
205741	AAATGAAGTT	AAAAATTAAG	CGGCAAAACC	AAGCCGAGGC	TTTCTGAGAA	AGTGGGGCCA
205801	AACCTGTTGC	CGTCTGACTG	CCACGTGGCT	CACTATTTAT	CCCTGTAAAA	ATCTGCAAAA
205861	GTATTTGAAA	GGGAAGAAGG	GACAGAAAAAC	TCCCTCCTTT	TCCAAGTTAG	CCTTATAGTC
205921	TAGGGCTTAA	AATACTGGTT	TAATGGTGAA	GGTAAGTGCT	TTTCTTCTTT	TTGGGTAGAA
205981	GGATTATTAC	TAACTTACCA	AAGGTCCATT	AAGGGGAGGG	AACAGTTTTA	GGAGAAGTCA
206041	GAGAAAAGAC	ATTAACAGCA	ACATAAGGAT	CTCCATCTGG	TAATATTGCC	TAATTCCAAA
206101	ATGAAGAGAC	TCTCTGAAAA	AGATAACTGA	TTCAATGAAG	ACCCTAGGGC	AAGGCTTGAG
206161	AAGCCACTGG	TACCAATGGA	CACTGTGGAC	AATGGTCATT	TCTCCAAGGA	CGCTGTGAGT
206221	ATTAACTGTG	ATGCTGTGAT	TAGTCAGACT	GGGATTGGCT	GTGGAATGAA	ATACTGATCA
206281	GAAC TGACAA	GATTTGTGTT	TGGGACTGTG	GCTAACGAGT	CTTTTCAGAC	TTCTATATGA
206341	ATTTGAAATG	GTCTCTCAGG	AAAAGGAGAA	CATGGCCGGG	CCTGGTGGCT	CACGCCTGTA
206401	ATCCCAGCAC	TTTGGCAGGC	TGAGGCGGGC	AGATCACTTG	AGGTCAGGAG	TTTGAGACCA
206461	GCCTGGCCAA	CATGGTGAAA	CCCTGTCTCC	ACTAAAAATA	CAAAAATTAG	CAGGGCGTAG
206521	CGGCGCGTGC	ACCTATGCGC	ATGCATAGTG	CGCGTGCCAG	CTATTCAGAA	GGCTGAGGCA
206581	GGAGAATTGC	TTGAACCCAG	GATGTAGAGG	TTGCAGTAGT	TGAGATCATA	CCACTGCACT
206641	CCAGCCTAGG	TGACAGAGTA	AGACTCTGTC	TCAAAAAAAT	AATAATAATA	AAAGAAAAGG
206701	AGAACATGAC	CAAAGTTATG	AATAAGACTG	AAGGCAAGAA	AATTGTACGC	TTGTAGAGAT
206761	CACCTAGCTT	GTTGCCCTCA	TTGTACAGCT	AAGAAAAGGC	ACCCAGGGAC	ATTGTGGTCA
206821	GCACCAATTT	CTCAGAAAGA	TAGGCAGATG	ATGAGAGGGC	CCTCAGTTTT	TCTAACACTG
206881	AAGGAATTGC	TTCTATGTTT	TCTGGTGAAAC	TCCTCCCCAC	TCATCTTGAG	GATTCCAGGC
206941	CAGAAGAATC	CACTTTAAAA	AAGAAACATT	TAAACCAAT	TTAACCAACCA	ATCAAAGGCA
207001	CTTTTATAGA	AATACATTTT	ATTTGCTGTT	GGCCTGTATT	TATGGATCTG	AGAGGGCTAG
207061	ACTGCCAATA	TTGTGACTGT	TTATTATTAT	TGCTGTTGCT	AGTATCTAGA	ATATTATACA
207121	ACATATAACA	CTTTGCAATT	TACGAGGCAT	GTCTCATACT	TTTGTTTTCA	CTCCAAACTG
207181	CCCAGTGAAG	TAACATTATC	CCAATTCCTC	CTATGAAACA	GTGAAAGCCC	TAAGAGTTTT
207241	TGAAACTTTA	CCTGGTTTAC	TCAATTTGGG	AATGGCAGAG	CAGAAATTCAG	TCCTTGAATA
207301	TCCTCCCACT	GCAGGTTTAT	GCTCTTTGAT	CTAGGTGTAA	CATTTACTCT	GAGTAAACTA

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207361 GGA CTCTGGG CTAACAGAGA TGAAGCAAGA CAGGCTGGAT ATTAGGAGAA TCTAAGAGCA
207421 ATCTAACGAC CATTATAATA AAATCATGAG TTCTAGACTT AAAAAAGGG AAAAACTGT
207481 TTTTTTGCCT ATGCGTATAC CATAATATTT ACATTATTTA TTTTTTCTC AAATTCAACC
207541 TATACGGTGT CAAGTAATTT TTTTAAATAT AACATTTTCC TTAACTTAA TTTCAATTCA
207601 TTTTTCTGTG TCTACTTACA ACTTTGGCAC TAGAATTCAC AATTTTTTTT TAGAGGTATA
207661 TCTCCTTAAA GGGAAGGGTT CTGACACTGT TACATGTTCT CAATTGTTTG CAAATAGGTT
207721 AATAATTATT CCAGTGTCTC TAAGTACATA TCAACCATGC CAGTGTTTCA CCTCCATAAT
207781 TTTATTAGCT TCTGTGCTTA TTTTGGAAAA ACATTTCCCA TTACCATGAA AGACCTCAGT
207841 TTAGGATGGT TTGGTATGTT AGCCTGATTT CTGCATTCGT CTCATGCAAA GGAAATAGG
207901 AAACGAAGAA CTGAAATTAC CTATTGATAC AAAATCAAAG TAGCATTTGA AACCATAAAA
207961 CTTAAGTAGG GCTTTTCATC CTTTCTCGTT AGACAGCAAC AGAGAATGGG AAGAAAAACT
208021 AAAGTGATGG GTTTGTGATA CAATTCAGT AACATAAAGA GCAAGGAGAA GTAGTTTTGT
208081 TGTGTTTATG TTTAATATTC AAAGCTCAAC CTAAAAGTAT TTTTCATTAT CAAACTTCCT
208141 TCTAGAATAA ATGATTAAAA CTTGATTTAA AATATACAAA TTCTCCTTTA TAATACCTCA
208201 AAATGGAGCT ACCCCATTGA GTTTTAAAGCT TGTGATTAAA ATATTACGAA AACAAAGGGG
208261 AAGTTGTAAT AGGTAGAACA AGCAGTAGTC TAGGCATTAG GGGATCTGGT GCTGGCTCTG
208321 TGCATCATGT GGTTCAGGC AACTTTTCAA ATTTTCTACG CAAATTTTCT TATCAATAAA
208381 ATAAACAGTT GGGCCAGAGG ATCTCTGAGT CTCTTTCAGC TTTCAGTGT TATAAGATTG
208441 GAGAAGTTGG TGGGAAAGCT TTAAGTGGAG TGTAAGTAAT TGCAGCTGCA TGTACAGTTA
208501 AAGAGTTGCC TTCAGCCAAG CCACGGGATC TTGCATAAAA AGTGAATCA AATAGAAAAT
208561 GGTCCAAACT CTGGGTTTGA CCACAGATGA CTTAGCTAG GATCTGAGTG TAGAGCAATG
208621 AGCTGAACTC CTGATATCCA GATGTTAGCA AGACTTGGAG GCCTTCTAAG GCAGAGCAAC
208681 AACCAGTATC TGTCCTGGTG CTGACCTGAT CTTACTAGCA ATTGGGCCTC CATTTGGGTC
208741 CATTGTACAA AACAACAACA ACAACAACA TAAAATCTCC AAACACCCAA AATTCAAAAT
208801 TTAGATGGAG AGATACTATT CCCAGAATTC TAGAGATATT TGGAAAGCAG AAAACTATAC
208861 TTGCCATGCT GATGAAGTCC AATTATTGCT CTTTAAATA CATTAGCTA CTTCTGAATA
208921 TAAAATGAGT ATCTACTAAT TATTTACAAA ATCACTTGGT AAATATAGAA AGTCACAAAG
208981 AATGAAGTGA TCATCCTGTT TTGTAACCCA GAAATAGTCA TTACTGGCAC TTGTGTGAAT
209041 CAGTTTCTAT TCCTGTATGT GGATGTGCAC AGCGTATCCT GCTTTGTACA CTAGAGTACT
209101 AGCATTTTTT TAATGTAATT CAATATTGTC GAAAACATTT TAAAATAGCT TCCATCACAA
209161 TAATCTATCA AATTGACTTG CCAGACTCTC ATTATTAGGT TAATTTATCT CTAACATTAT
209221 GCAGTCATGA GTAATACTAC AAAGGATATT TTTGGACACA ATTTTTCATC TATGCCTTTC
209281 TTTATAATCC TTCATCCTAA GGTACAGAT TATGAATATC TTTAAAGTAC GGACAAGTCT
209341 TTTAAATTTT GTGTGCAAAA ACAGTGCAAA GCCTTGAATG ATAAAATAGA GGTTTGATAT
209401 ATGTGTTTTT TTGTTTGTGTT GTTTTGAGAC GGATTCCTGC TCTGTCCCCC AAGCTGTAGT
209461 GCAGTGGCAC GATCTTGGCT CACTGCAACC TTTGCCTCTT GGGTTCAAGC AATTATCCTG
209521 CCTCAGCCTC CTTAGTAGCA GGGTCTACAG GCATGTGCCA CCACACCCGG CTGTTTTTGT
209581 ATTTTTAGTA GAGATGGGGT TTCACCATGT TGGCCAGGAT GATCTCGAAC ACCTGACCTC
209641 AAGTGATCCA CCCACCTCAG TATCCCAAAG TGCTGGGATT ACAGGTGTGA GCCACTGCAC
209701 CCGGCCGATA CATGTGTTTT TAAAGTCACA GAAATTTTCA ATGTCTTGAA GGATTTTAAAG
209761 CAATTTAAAA AATAAAGTCA TGAAGCTTC AATTTAGGAA TGAATGAAAA ATTGATGATA
209821 TTCTTAGGAT ATGGATTTTT CCTAAAAGAA ACAAAATGTAT GCATCCCCAA AGATAATTTG
209881 ATTAGTATAC AAATATTAAA TTAACATGT CCATATTTAG AGCCATGAAT TCTCTTTGCC
209941 TGTCACAATA GCTGGATTTA TTCACAATTG TAGTAATTAG TCCCTGTTCA TTATAATTTT
210001 CTAGGTGATA TGAAGACTTT GTCAGTCCAA GCAAGTGTCC ACATTGTGTG TAGCAAACAT
210061 GAGAATAAAC ATTTTAAACT TTTAAATGTA ATACATATTA GTGTATGTA ATGTCATCCT
210121 TCATGTTTGA AGGCACATGG AACATTGTTT TGGTGGTACA GAGGGGAGAG AAACACCATC
210181 AGAATGAAAG GAAAGACCGC TCTGGAACCT TCCTCCTTAG CTCTTGAGCT TAGTTTAATT
210241 GTCCTGTCTT ATGGTCTGCT ACAAGCAATA CCACTCTTCA CTTTCGCATG CTTCTCTGTG
210301 GTTTGATAAA GTACATGCAA TTTTTCATTT AATTCCTTCA GCTGCACTAA GAAAGGAGCC
210361 TTATCTTTAT TGAACAGATG AGGAAATGAA TGATTAGAGA ATTTAAATGA CTAGCTCTAG
210421 GTCACACAGC TGGAACTTAC AGCCAGATTT CCTTTTAAACA ATCCTGTAAC CAAAAGCATA
210481 CCAGTAGTGC CCCATAAAAT GTAAGTTATA GAGCTGTGTT GGGTCAAAAC TTTTACTGAT
210541 GCTAAGAGGA GGCAACATTA ACAAGGGGAA ATTATTTGTG TATTATGTTT TGGATTATGT

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210601	TCTCTCCATA	GATAAAAGAC	TGTCGTAGTA	AAAGAGATTC	AGGGCACAGG	GAAACTCCAC
210661	CACAAAGCGT	GGTACCATTT	CCCACAGAAG	CTAAATGGAC	GGGAAGCCTG	CCACCAGGAA
210721	AGGTAAAGCC	ACTGCTCTTG	TTTGCAGGCT	ATGTAAATAA	GCTGAAGCTT	ATTCCGACAC
210781	ATTTACACAT	CTCTGCATCA	CACTGACCCT	TCGTAAAGAT	ACTCCCAGTG	TAACATTGGA
210841	GCCAGCTCCA	GCCCCTGATC	CTGTTGCTTT	TTCTTAGGCC	CCATGAAATC	ATCTGCGAGA
210901	AATTAAGCCA	AATAAGCAAT	AAATCCTGGG	ATCTAGGGAG	TGGAATAAGT	TTTGGGAAAG
210961	TCTTTTCTTT	TTTTTTTTTG	ACTGAGTCTT	GCTCTGTCTC	ACAGGCTGGA	GTGCAGTGGT
211021	GCGATCTCGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAG	GTGATTCTCC	TGCCTCAGCC
211081	TCCCAGTAG	CTTGGAAGTAC	AGGCACACAC	CACCATGCCC	AGCTGAATTT	TTGTATTTTT
211141	AGTAGAGATG	GAGTTTCGCC	GTGTTAGCCA	GGATGGTCTC	GATCTCCTGA	CCTCGTGATC
211201	CACCGGCCTC	GGCCTCCCAA	AGTGCTGGGA	TTACAGGCAT	GGGCCACCAC	GCCTGGCCCG
211261	GGAAAGTCAT	TTTAAACCAA	CCTATGTATG	AATCCCTACT	ATAATATTCT	CACCAAGCGG
211321	CTGGCTCTTT	CTCCTGAGCT	TGGAAACCTC	CAGTAAATG	GAAATAATTA	TTCCAGAC
211381	CACCACTCTT	ATCTGTGAGC	TTTTTTGGCC	ATTAAAAATT	ATTTCTTCCA	TTATATTTTT
211441	ATCTGTGTCT	TCACAGGTTT	TCTCTTCTT	TCACTTAGT	GCTTTTCTTC	AAATAAGCAG
211501	GAAAAATCCA	ATCTATCATG	CACATGGGAA	CCCTTTCAAT	ATTGGTCTGT	GGTTGTTCCA
211561	TTTTATGGGG	ATGCTTTTAA	AGAAAAAATT	TGTCCTTTCA	ATATATTGAA	TATCTTCCAG
211621	CACCACATCA	CCTGCAAGCT	TTGTAAAAAT	AGTTCTACAT	ATTAATTTTT	TTTTTTTTTG
211681	AGATTGAGTC	TCATTCTGTC	ACCCAGGCTG	GAGTACAGTG	ACATGATCTT	GGCTCATGTC
211741	AACCTCTGCC	TCCTGGGTTT	AAGTGATTCT	CCTGACTCAG	CCTCCCGAGT	AGCTGGGATT
211801	ACAGGCATGC	ATCACCATGC	CTGGGTAATT	TTTGTATTTT	TAGTAGAGAT	GGGGTTTCAC
211861	CATGTTGACC	AGGCTGGTCT	CAAACCTCTG	ACCTCAAGTG	ATCCACCTGC	CTTAGCCTCC
211921	CAAAATGCTG	GGACTACAGG	CGTGAGCCAC	TGCACCCAC	GTAGTTTTTT	TTTTTTTTTA
211981	AGTTGAACAT	ATGTGAAGGC	AGGACCTAGT	GACACATAGC	AATAACATTT	CCAAGTAGAC
212041	ATTACACTAG	GGAATTAGTC	AAAGTGCTCA	TTTAAAGTAC	CATCTCTCAA	ATGTATTAAA
212101	AGAGAATCCT	TGGATGTGCA	ATAGCTTAAT	TCAAAGGCAG	CTCGTTATGT	ATAAACTCTC
212161	AAGCTTTGTG	ATAAACAAAT	GTGCATAACA	GATGGGACTA	TTGACTTACA	GCCCAGGGAA
212221	TTTTATTGAC	GCTGAGAAGG	TTATGTGACT	GGCTCTGCCA	CTGTCATCCC	CATCACTTTC
212281	ATTTTGGAGC	AATATGACAT	AAATGCCTTA	CATGTGGGTT	TTCTCTATTT	ATCATGTGTT
212341	TCCTATCCCC	TTGAAAGATG	GCCATATTTG	CTTTACTTGG	TTATAAGATC	CCATATTTCG
212401	TGTCTTGAAG	CCAACCAAAT	AATTTGACAA	AGTGGGTTTG	TAGTGCTGGC	TATTTTGGTG
212461	AAAAAAAGAC	AATGAGACTT	CATGTGTCTC	CCAAAGTTCT	ATCAGATCGA	GCTGTGAGAG
212521	AAAGGAAAAG	AAAGGGGTCT	CAGTCAGGAT	GCTCACTGCA	TACATCTGTG	TTGTTGTCTA
212581	GGTCCAGATT	TCTGTTCATT	ACGCTATGGG	CTGGCTCTTA	TCATGCACTT	CTCAAACCTC
212641	ACCATGATAA	CGCAGCGTGT	GAGTCTGAGC	ATTGCGATCA	TCGCCATGGT	GAACACCACT
212701	CAGCAGCAAG	GTCTATCTAA	TGCCCTCCACT	GAGGGGCCTG	TTGCAGATGC	CTTCAATAAC
212761	TCCAGCATAT	CCATCAAGGA	ATTTGATACA	AAGGTAAGTA	TGATGGAAAA	TAGGGCTCTT
212821	TGTTGAGAGA	AAAAACTTTG	AAAGGAAGGC	ATAGATCTTG	ATTCTGTGGA	GTATGGAAGT
212881	ATACATTTCC	AATGACAAAT	TAAAACTGAC	TGGAACATTT	TTTCTTTGAG	ACATTGCTTA
212941	CTTCAATAAT	AAAAATAAGA	TTTCATTGAG	GTTATTATGA	TTATAAGGTG	GGGGAACGTG
213001	AGAGTTAAAT	GTGAAAAATT	TAAAAATGGA	ACAGTTTATG	TGATGTCTTC	AATGAAAAAC
213061	TAGGTATTAC	CTGGGCACAT	TCTTATAGGT	TACTCAATCC	TATTCAGTTC	TCTGCCTGTT
213121	TTATTGTTTC	TGAGCAATTT	TATATCCCTG	TAAATTCTAT	ATAACCAATA	GAAATGCAAA
213181	CGATTCTTGT	CCATAGCTTT	GCAATAAAT	TTTGCCAAGA	GAAAAATCAG	TTAAAACTTT
213241	TCTCCACTCA	CCTCCCAGTT	GAATTAGCCA	ATTTTGCTGT	TTGTTTGTTC	GTTTGTTTTT
213301	TGAGATAGAG	TCTTCCTCTG	TCATTACAGC	TGGAGTGCAG	TGGCATGATC	TCAGCTCACT
213361	GCAGCCTCCG	CCTCCCGGGT	TCAAGAGATT	TTCCTGTCTC	AGCCTCCCAA	GTAGCTGGGA
213421	GTAAGGGGGC	ATGCCACCGC	GGCTGGCTAA	TTTTTGTTAT	TTTAGTAGAG	ACAGGGTTTC
213481	ACTAGGCTGG	TCTCGAACTC	CTGACCTCAG	GTGATCCACC	CGCCTCGGCC	TCCCAAAGTG
213541	TTGGGATTAC	AGGTGTGAGC	CACTGTGCCA	GGCTCTGCTG	TATATTTAAA	GTCTATTTCA
213601	GCATTGCTTC	CTGCTTGTGT	TATGCGTGAT	TCTTTGAGTT	TTCTTTTGAA	CCAGTTATAA
213661	CATCTTACTT	ACTTCCTCCA	TTAATCAATG	AGTTAAATAA	AATCTTTGTT	GTATGTTTAT
213721	TTTACATTTA	TATGAAAACC	ATGAATTTAC	CCAATTAAAA	AAATTATCCT	TTAAATTATC
213781	TTGTACTGTA	CATTTCCCAT	GTCATCCCTA	TAATTCATGA	TTAATGATTT	TATTACATTG

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213841 GACCTAGCTT ATTTACAATG AGTACATAAA TTTATTGTCT CCAGTCTTTC CTCCATTATC
213901 CCGTCTACAT ATCCACACTG AGTAGATTCA CTACTCAGGA ATCTTGGACA CCTTCAAGTT
213961 GCCAAACATG CAGTGTTTAC TGGACATGCT GTGTTCTTTC AGAATTTGGG CCTGCTTCTC
214021 AGCACACTCA CATCTGCTAT CAATGACCCA TGGAAAGTTT TTGCCCTGAG CAAGCCAGAG
214081 TCCCTGTTAG TTTCTTCCAA ATGCTACAAG TTCACTTTTG CTATTTTTTC CGATGAGATA
214141 AAATTTTCTT TTTTGACTTT CTACAAATCA TAGTCATTTT TCAAGGGATA GTTCAAGTAT
214201 TGCTTCTTTT CTGGGACCTT CCCAAATTAT TATTTTCTCC TCTCAAAGTC TCTGTTTTAT
214261 TTATGTTTCAT CCTCAAATCT TGATTCTCAC ATGAATCATA TACCTTGTAT TATTTATAGT
214321 TTTTTTGAGT AGGTAAATA TTTCATATTT TATATCTTTT GGCTCTCTAC TTTATAGCAT
214381 GATGCCAGAT ATTTAGGGGC CTACTGCAT TTATTTTTTA TTTTATTTTA AAATCTATTT
214441 TATTTTTTAT TTATTTATTT TAAAATCTAT TTATTTTTAG GTAAATATTC AGGTAATATA
214501 ATTTATGTAA TTATTTAGGA ATTTAGGTA GTTATTTTAA AATAATTCAT ATTATTTATT
214561 GAGTTATATC AGAAGAATGT GATCTTATTC ATTTGTAATA TGTGTTTTAG GAACTCAGTT
214621 CAGCCAGGGC AGACCATAAT TCCCAAACCT GACTTTTCTT TTTAATTAGG CACTGATTTT
214681 GGTAAAGAGT TCAGTAAAGT TTTGTGTGTG TGTTTTAAAA AATTCTTTGA TATAAGAGTC
214741 AAGATGTTAC TCAACTTTTA CTAGAAGCAA AATAGAGGAA GTGCTTTCAC AGATGAAATA
214801 TCTCTCAATG TTTTCTTCCA TTTACTTCTT CCTATTATTC ATCTATATAA TCATTTTCTT
214861 TACCTCTTTT CTTCATTTCT TCTGTTTTTC TCTCCTACTA AGACAAGCAA ATTAGGGGTA
214921 TAATTGGTTA TTTGGGAAGG TAGGAAGAAT ACAGAGAGAA ACAAATATCA ATATTTTATA
214981 CTAGGGTCTC ACTAACCTCA AGCAACTCTG ACTGTAAAGT AGATTTTCAT AATAGGACTT
215041 CTTGACAAAG AGTTTTCTTA TTTTCCCCC AGGCCTCTGT GTATCAATGG AGCCAGAAA
215101 CTCAGGGTAT CATCTTTAGC TCCATCAACT ATGGGATAAT ACTGACTCTG ATCCCAGTG
215161 GATATTTAGC AGGGATATTT GGAGCAAAAA AAATGCTTGG TGCTGGTTTG CTGATCTCTT
215221 CCCTTCTCAC CCTCTTTACA CCACTGGCTG CTGACTTCGG AGTGATTTTG GTCATCATGG
215281 TTCGGACAGT CCAGGGCATG GCCCAGGTAT CCAGATACTT TCTCATTCTT GGTGGGATCC
215341 AGATTTCTGA ATCTACAAA ATATCAAAGG TCTTAATGAT TTTCAATTCA GGAATGGCA
215401 TGGACAGGTC AGTTTACTAT TTGGGCAAAG TGGGCTCCTC CACTTGAACG AAGCAAGCTC
215461 ACCACCATTG CAGGATCAGG TAAGTGTGCA CAGATGGGTC ATAGCTTTGT CATCTGTTCC
215521 ATCCCCTGT GTCTTATCTT CTATGAATCA AATGGTTTGG GGAAGAGAGA GAAAAAGTAC
215581 TGCTGAAAAA TTCAACAATA TAAGACACTT GCATCACAAA TAGGAAAGAT GCATCTGTGC
215641 AGTAAAGACA TTGAAGCTTA GAAGTAGAAA AAACCATTGT GAGCTAGGTT TCAGCTCAGA
215701 AAAGCCTTAG TAGTCAGAAA AGCCTTAGTA GTCAGAAAAG CCTTGTCCGA AAAAGTTTAA
215761 ACCTTTAAGA ATTGCACACA TGGAAAAAGA TCAAGTAAGC TATATATACA CCATCTTAGC
215821 AATGATTTTG AAGTGAGAA TAAGGCTACC ACAGCTCCAG GTGGTAAGGA GAGAAATCAG
215881 GCTGGAAGAG TTTGAAGTTT CTGTATTATT CTAAGCTCTT TACTATTCTA TTATGAGCTC
215941 ATTAATTCTC ACAACAACCC TCTCATATAA GTACCATTTT AAATTCTTAT TTTACAGAGA
216001 AGGGAGTTAA GGAAGGTGGA GATTAAGAAA ATTGCCCAA TACAAATAGC CAGCAGGTGG
216061 TAGGTCTGAG ATTTAAGCCC ATGCAGATTT TAGCCCCAGA GCAGACATTC TCAATCACTA
216121 TGCTAGACTG CCTTTCCATG GTATGTGATC CTACTCAGGC CTCTACAGCT TTATCATTGC
216181 TGTTCTCCCC AGCCTGTCTG GCTGAGAGTA TATACTCGAA GAGCAGAACT AAAATTCCAT
216241 CCAGCTTCTC ACTCCTAGGT CCACTACACA GCTGCATCCT GCAGACTTTT ACCTCAAGCA
216301 ACCCTCCTGC GTTCTTGCTT CTTCCATCA TAGTTGTAAC CATCTCCTCT ATTGCAAAT
216361 ACTATCTGCT GATCTCTCTC TTCTAGACTG GTTTCTTTCA ACCTTCTTCC CACCAAAACC
216421 AAGTTAGCTT GCTAAAATAA AGATGGCGCA TTTTACTCA CCCGCTTGAG AATTTTCAAT
216481 GTGTTCCCTT ATGCTTACAG AGTAAAGCCT GACCTCTTTA TTGCATGAAT ACAAAAGTTC
216541 TTAGCCATCT GGCCCCAACC TTGTTCCACT CAACTCCCCT GTGCAAGCAT GGCTCCAGTG
216601 GCACTGGACA TTGGCTGCTC TCCACATAGA TCTGCACTGC ACTTCCCTCT GGCTCTGCTC
216661 CCGTTAGTTT ATATGCCTGG AAAGTTCTTT GCCCTGTTC CTGTGCGCAA AATTCCATCT
216721 ATCCTATTGC ATAGCTTATG TAAAACTTC CTAAACCTTT TTTTTTTTTT TTTTTTTTTT
216781 TTTTTTTTTT TTTTTTGAGA CGGTGTCTCA CTCTCCGCC CAGGCCGGAC TGCAGTAGCG
216841 CTATCTCGGC TCACTGCAAG CTCCGCCTCC CGGGTTCACG CCATTTTCTT GCCTCAGCCT
216901 CCCGAGTAGC TGGGACTACA GGCGCCTGCC ACCATGACCG GCTAATTTTT TGTATTTTTA
216961 GTAGAGACGG GGTTCGAAGC CAGGATGGTC TCAATCTCCT GACCTCGTGA TCCGCCCGCC
217021 TCGGCCTCCC AAAGTGCTGG GATTACAGGC GTGAGCCACC GTGCCCGGCC AAAACTTCTT

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217081	AAATCTTATA	ATTATTATCA	ATTTATCCTC	AGATATACTT	CCACGTACAT	TGTAGTTTTA
217141	TTATATTTAT	ATTTTACATC	TTTTTTTTCA	AATTGCAGTT	TGGGACCCAT	TAGTGAGTCA
217201	TAAAATCCAT	TGAGCGGGTT	AAAATCATT	TTTTAAAAAA	TGAGTAGAAT	AGAATAGAAA
217261	TTGTTGGAGT	GCATTGGACA	TGGTAAAGTT	AAATATCGAT	TCATGAAACC	ATCGTTTGAG
217321	GCATATGTGT	GTGGTTGTAT	GTACAAAGTT	TTATGCATAT	TGGTGTGTGT	GTTATGTTAC
217381	CCTGTAAAAT	GCATTTCTTA	CTATAGGTCT	CTGTGAAATA	TGTGTCTTGT	TGTTTTTTAA
217441	TGTAGACTTC	CAAAGCCTAC	ATGGCATTTC	ACTAGTGACA	ATCAATTTTA	TTCACATTTT
217501	TCTCTCCAAT	TGGACCAGAA	GCTCTTTGAG	GGCAGGGGCT	GTATCTTACC	GATTTTTGTA
217561	AGCTTTTCAT	TTCCTGCCCC	TAGCCTCATA	TTAGATCATG	CAAGAATGCA	ACTGTAATCA
217621	CAAGAAAATG	CTAATGGGCT	GTGATAGCAG	AGAGTTACTG	TGACAAACTA	AGGGATTTAG
217681	ATTTGGTCAC	ATTGGTGTG	AGGAGCCATT	GAAGAATCAG	AGAGTGTGTT	ACTATTATTT
217741	GTTAATTTTA	ATTATATCAT	ATTACTTTAC	TGGGGAAAAA	CTGTGAGCTA	TTTTAGAAAT
217801	AAATACTCTC	ATTGCCCAAT	AATTCTAAGT	CTGCCACCTC	ACTGTTGGGA	CATTGTTTAG
217861	GGAGGCCACG	AAGTCTCAGC	CTTTGATATT	TTCATAAGTG	TTTTCTCCC	TTTTCTCTTT
217921	AGGGTCAGCA	TTTGGATCCT	TCATCATCCT	CTGTGTGGGG	GGACTAATCT	CACAGGCCTT
217981	GAGCTGGCCT	TTTATCTTCT	ACATCTTTGG	TGAGTCACTT	TCTCTTAAAT	CCTAATGCCT
218041	CCATTTCCCTG	AGCATCCATT	TTGGCACCTA	CACCACCCAC	ATTCTTCCTA	TATGAAAGAA
218101	AATGTCTTTT	ATCAAATGGA	AGATGATAAA	AAATGTCAAC	GGTTGGTATC	ATTTTTAATC
218161	TAGTCACACA	ACCTGATTAA	CACCTTCCTG	GTGGTTCTGG	GAAGCCACAC	GCAAAAGGTA
218221	GAGGAGTTGA	CTATTACAT	GGCACCACCC	GACTTGTGAT	GCAGTCTTGT	CCTTCCATAT
218281	CAAGCACCTT	CTGCAGAATC	TCTACCACCA	CATCTGAAGT	GCCTGCTATA	TGCAGTTAAG
218341	ATGTCAAAGA	TAGTGAAGTA	CATTTTCAAT	GTGTCCTCAT	ATTTCAATTAT	AATTATTATT
218401	TCTGTCCAAG	ATGCCTTTCA	CCTGTTCTCT	ACCAAGTTAA	TCTTGCAAAG	TTCAATTCAA
218461	ATGTTCCCTT	CCCCATGGGC	CCTTCCAGGG	CTTACCCTGT	CAGATTCTGG	CATTCTCTCC
218521	TTTATGATAT	TTCCTCTCTA	GGTTATGTTG	GTGTGTAATT	ATTTATTTCT	CCTTTTCTTT
218581	CCACTAGACT	GTGAAATGCT	TGAGGCAAGG	AATCCATTCT	ATGTTTTTAT	CAGTTGGGTG
218641	TCATCATGGT	GCCTGATTTT	TAGCTTTAAA	ATAAAAGAAT	CAGTGAATCC	AGTAATTAGA
218701	GGGGATTTAA	AGAAAACCTAG	TCCTCAGAAT	CTTTTAACAT	AGAATGTTCT	TCAAATAAGG
218761	AATTTCAATA	ATAAGACAAT	TTTCTACACT	TGATTTTGTT	TTTATAGCCA	AATGGTGTCA
218821	TTAAATATAG	TCCTGGCCTG	AATGGCTTTC	TCATTAATGA	TGCTAATTAT	TTTGGTTTGT
218881	ACATGTTAAC	CAGGTATTGT	ACAAAAATAT	TTCTTTTGGG	AATCCATAAT	GGATGTATGG
218941	CTTGAATACA	AATAATACTG	TCTCTGTAA	GTGCATTGGA	AATTTTTCCC	TGCCACATGA
219001	TTTCATGGAA	GGTTGTTTCG	TGTATGTATG	ACTGCAAACC	TGACTATTCA	GATCTTCCGC
219061	AACAAGACAA	CTTATGTGTG	CATTAAGAAG	TTGCTGCCTA	AAATACATAA	CAGTGTAAATC
219121	ATTGGAGACT	TTAAAGTAAT	TAATCAGCTA	TGCAATGCCA	CGCTCCTGTT	ATCTCCAGAG
219181	GGCTCTGACA	TTGACAAATG	GTGGCTTTCT	ATTTGAGACG	TAATATCTAA	AAAGCTTTAA
219241	CAGGTTTGTA	GAAGGATTGA	AAGAAAGAAT	GGGAACATTT	AGGTCCCTTAT	GGTAGAATAA
219301	GCATTAATTG	ATTAGTGTGT	AGAAGGGAGA	GGCATGCCAC	TTCAGAGGAA	ACTTCCTTCC
219361	CCCAGTAAAC	AAATCTACCT	AAAACTAAT	TTTATCCCTT	CTTCCCAGGT	AGCACTGGCT
219421	GTGCTGCTG	TCTCCTATGG	TTCACAGTGA	TTTATGATGA	CCCCATGCAT	CACCCGTGCA
219481	TAAGTGTTAG	GGAAAAGGAG	CACATCCTGT	CCTCACTGGC	TCAACAGGTA	CAGTGCACAC
219541	CTTGATCCTG	TGGCCCATGC	AGAGGTCTCT	AGGGCAGGGT	GTGGATCTCC	TCTGAGAGGC
219601	ACCATCTTGG	CTGCTCTAAT	ACTCATGCTG	ATTAGATCTT	TCTTTTCAGC	CCAGTTCTCC
219661	TGGACGAGCT	GTCCCATATA	AGGCGATGGT	CACATGCCTA	CCACTTTGGG	CCATTTTCCT
219721	GGGTTTTTTC	AGCCATTTCT	GGTTATGCAC	CATCATCCTA	ACATACCTAC	CAACGTATAT
219781	CAGTACTCTG	CTCCATGTTA	ACATCAGAGA	TGTGAGTTTA	CTTCTATAC	TTCTACGAAA
219841	ATGATAATGG	TAATAAGGAG	AAACAGTTCT	GTGTTACCTA	TTACATTCTG	GCTTTACATA
219901	TAACCATTAA	TTTAACCTTC	ACAATGACCT	TGAGAGAGGC	ATTGTTATAA	TTCCCTTTTC
219961	ACAGATGTGG	AAACAGGACA	CTTAGAGGTG	AGATAACTTG	CCCCAGGTTG	CACAATACTA
220021	AGTGATAGAG	CTGCTGCAGC	ATCCATATTC	TTAACCCTA	TGCTATACTA	CCACACCAGC
220081	TGATTCCAAA	GCTTCTTTTA	GAAATAATAT	TGCTGGGCCA	GGCATGGTGG	CTCATGCCTG
220141	TAATTCCAGC	ACTTTGGGAG	GCCGAGGCAG	GCAGATCATG	AGGTCAGGAA	TGCAAGACCA
220201	GCCTGACCAA	TATGGTTTAC	TAAATATCAT	CTACTAAAAA	TACAAAAATT	AGCCAGGTGT
220261	GGTGGCAGGC	ACCTGTAATC	CCAGCTATTC	AGGAGGCTGA	GACAGGAGAA	TCGCTTGAAC

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220321	CCAGGAGGTG	GAGGTTGCAT	TGAGCCAAGA	TCATGCCACT	GCACTCCAGC	CTGGGCGACA
220381	GAGTAAGACT	CCGTTTCAAA	AACAAAAAAC	CCAAGAAATT	AATATTGCTT	TTATCTGGAG
220441	CCCAGAGTGA	TGCAGCTTCT	GGCCCTCTTA	TCTGAGACAG	TGTTCTTTTA	GTGTGAAAAA
220501	GGATGCTAAT	TTTCCCCCAA	ACAACCCACA	GTATCATGGG	GGTAAGTTAA	TGGCTGGTCT
220561	GTGTAAGTGA	CAAATTTTGG	TGCTAACGTA	TCTCTATAAC	TACTCTGTAT	AAACTTCCTT
220621	CCTTCAGAGT	GGAGTTCTGT	CCTCCCTGCC	TTTTATTGCT	GCTGCAAGCT	GTACAATTTT
220681	AGGAGGTCAG	CTGGCAGATT	TCCTTTTGTC	CAGGAATCTT	CTCAGATTGA	TCACTGTGCG
220741	AAAGCTCTTT	TCATCTCTTG	GTAAGGATAA	GCGTGTGGGC	CCATTTAACC	AATCCCTTTT
220801	CTGCACATGG	TCTCAGAGGG	TTCCCTGACA	GCATGTCCTC	ATTGCCCAGG	GCTCCTCCTT
220861	CCATCAATAT	GTGCTGTGGC	CCTGCCCTTT	GTGGCCTCCA	GTTACGTGAT	AACCATTATT
220921	TTGCTGATAC	TTATTCTTGG	GACCAGTAAC	CTATGTGACT	CAGGGTTTAT	CATCAACACC
220981	TTAGCATATCG	CCCCCAGGTA	AGAGCTCTAC	CTGTTTTTTC	CCCTCCTCCA	GACCCCTCCA
221041	GAGGTGTTAG	ACCTCAGTGG	TCGCCGTGAA	ACTCTTTAAT	GTTACTGACA	GTGCACTAAT
221101	GGCAGAATGA	CAAATAACTA	CAAATATCTG	TCTGTGGCCA	TTTTTAGAAC	AACAAATGTG
221161	GCATTTTTAG	AACAACAATT	TCCAATCTTG	GCCAGTAATC	ATTTTGACAA	AAACCTTCCC
221221	AAGCTTCCCT	AACAGAGATT	GAAGTGTGTA	TGCTGGGAAA	AGGCCACAC	ACAGGTGATT
221281	TGGAAGAGTT	TCCATGGTGT	TGTTCAATAT	AGCTACCACA	TATATATATA	TATATATATA
221341	TATATATATA	TATATATATA	TATATATATA	TACAGTCACA	ATAAGCCAGC	TCCTGTGCCA
221401	AGACTTGCCA	TATATCAACA	CATCTAATCC	TCACAGTTAT	ATTAGGTAGG	CCCTATTGTT
221461	ATCCCCATTT	TATAAGGGAG	AAGGCTGAGG	CACAAGGAGG	TTAAATGGTG	TGACTATGGT
221521	CACATAAAGG	CAGAGCCAGG	ATTGGGACTG	GGGGAGTCTG	GCTTTGGAGT	CTGTGTCCTG
221581	CCCGTTGCAC	AAACTGGCTT	CTACACTGAG	CAGCCAGGGT	AAAGAAACGT	GGTTCCTCAG
221641	GAGACTGCAT	TGCTCCCTGG	TTATTGACTT	GGTAGATTGG	TAATTTTCAGG	TTTGGCAAAT
221701	AGACATTGCC	CTGAATGTCT	TTAGGTGAAT	GAAAACTGC	ATTAAGCAAA	ATGACTTTGC
221761	CATTAGAGCT	GAATTGCATT	AAAGTTGAGT	TGCTGCAGAA	GCTGTAGGTG	GCTTTCTATA
221821	TAAAATCATT	TATAAAATCA	TCTTCCCAT	GATATGCAAG	TTTCTCATG	GGAATCTCAA
221881	GGGGATTGTT	GCTCATCGCA	GGAATCATCT	CTTCCACTGC	CACTGGATTG	CTCATAGCTG
221941	AGGTTGGGTC	AGTTTATTGA	ACATCTTCAA	GTGGCAGGTA	TTGTTTTAGG	TGTTGGAGAT
222001	ACACACGGTG	CTCTAAAGAT	CTGGATGGCA	ACACAATTAC	TCTATTTTACA	TGAGCCTCTA
222061	AATCAGACTC	TGGTAGGTCA	GATTTCCCAG	AGGAAGAAAA	ATATAAGCTT	ATTTTCTCAA
222121	GATGAATAGA	TGTTAGATTG	ATTAAAATGA	GCTGTTCCGG	TGCAGAAGAC	AGCACGTATG
222181	ACTTCCTAGA	GGTACATGAG	CATGAAACAG	TTCTTAGTTA	TGACCAGAAT	GAAAGACACA
222241	TGTCAAGGAA	TAGCAAGAGA	CGAAGACAGA	GGGGCAAAAG	AAGATCATGA	AGAATATGTT
222301	CAGACTAATC	CAATTTTTTAA	AAAATCACAA	AAGGGAAACA	AAGTGTCTTA	GGCCAGTTTA
222361	AAGATAATTT	AATGTCTGGA	AACAGATCGG	CTGTGAGACA	TTGCAAGGAG	GCTTGCTCGG
222421	TGTTTGGA	TGCAGGCTCA	TGAGGAAGAT	GAAAAGACAG	ACCCAGGCAG	GGATGGAAGG
222481	ACTGACTAGA	ACCAACTTAC	AAAGAGAAGT	TTTGTTTTTA	CTACATTTCT	ATGTGATCAA
222541	GTTCCAGGT	TAATATTTGA	CTAAACTGCT	AGGAATCCAC	TGTGACTATA	ATGCTGGA
222601	TGACTTAGTA	GGGCTTTCTG	AGGAGGGTCA	CACAGAAGAC	CAAAGAGAAC	TCATGTTGAA
222661	TTGAGATGGG	TTATAGTGAT	AGTTGTCAAC	AGCCAATACA	GAAACAAAAA	AAAACAAAC
222721	AAACAGCAAC	AACAACAACA	ACAAAAAAA	AAAACAGAGA	AGACACAAAC	ACAATGCCAC
222781	AATGCCATTT	TAGGCATAAT	TTTAAATGAG	TAATATTATA	TGTTGAAATC	CAAATTTTCA
222841	GAAAAACATT	AGTGTATTTT	ATTTTGTGTT	AAAGAAATAA	CCATCTCAAC	TCAGAACCCC
222901	ATGTGCATTT	TGGCCATTTT	GTTTCCAATA	GTTTCATAAA	CTTCTTTAAG	TAACTACTGC
222961	ACATTGTTCC	TTATATTCCT	TGTGATCAAC	ATTGCAATAC	ACAACCTGGG	GAAGCTACTAG
223021	AACTGGTGTA	GAAGGAACCT	GTGAGATTGA	TCATTTTCTC	TGTTTTTTAC	ATCTAGGATT
223081	TTGAGTCTGG	TTGGAGGAAT	GTCTTTTCTC	TGTCTGCTGC	AGTCAACATG	TTTGGCCTGG
223141	TCTTTTACCT	CACGTTTGGA	CAAGCAGAAC	TTCAAGACTG	GGCCAAAGAG	AGGACCCTTA
223201	CCCGCCTCTG	AGGACATAAA	GTTACAAACT	TAAATGTGGT	ACTGAGCATG	AACTTTTTTA
223261	ACATTTTTTA	CTTCTCTCCA	TATTCCTGAC	CATAGACTCA	GCAGTTCTTA	ACTCTGGCTG
223321	TGTGTTAGTC	TTCCCTGGGG	AGCCTTTATA	AGACACTGAT	ACTTGGGACC	CACTCCAGAG
223381	ATTCTGAATG	AATTGGTCTG	GGGTGGAACC	CAGATACTAC	TAATTTTTAG	ATACTCCTTA
223441	GAGGTTTCTA	GCATGCGCCC	GGGTTTGACA	ACAGCTGGAC	AAACTTGAAA	AGTCAATTCA
223501	TGTGGCCTTT	GAATTTTCTT	CATTGGAAAG	TACTAAATAA	ATAAAATTC	ATGTGAAAAT

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223561	GATCACTGAT	AAATATCTTC	ATGGTGGGGC	AGGTTATTGG	ATGCAGAGAA	GATCTGCTCG
223621	GAATTGTAGC	CATATGTTAC	AGATCTCAGC	ACCGATCAGA	ACTGTAAAGC	TATAATCCCC
223681	AGAATTAAAG	TTTTTATTAT	TTTTTATACA	TTGTAAAACA	TAGACGTTTA	TTTATGTGAT
223741	TAAATTCTAT	TAAAATTTAC	ATGCTAAAAT	AAAATAGACC	ATTTTCAAAT	TATTTAGATC
223801	CAGATATTTT	CATCAGATTA	AACAGATATT	TATTTATCCT	AGCCCAATTG	CAAGAGATTA
223861	ATGATGAGAA	AATGACCAAT	ACAAGATTAA	ATAAATGAGG	TTAACTTAGA	AATCAAGGAC
223921	AGAGAAGATA	GAAGTGGAAA	GCTTGTATTG	TGAGAAGAAT	GAATGTGAAG	GAAGGCAATG
223981	TAGACACTTC	CAGAAGGGAT	AGCAATATAG	TTTAGACCAT	ATAATGAAAA	TTGGAGAGAG
224041	ATGACAGAGA	CACTTTCAAG	TGAAATGACA	ATTTATATGG	GGGAGAAAAA	TATTGAAGAC
224101	ATAACAAGAT	GAGAAAAGGC	ATAGAAATGT	ATCACATACA	AGGCATAGAA	GTGTATCACA
224161	TACAAGAGAA	GTTCTTTTGG	AGCGTAGAAA	AAGATAATTT	AACCTTCTTC	ATATTTTCTT
224221	TACTTTCCCA	AGATACTCAG	ATAGGCAGCG	TCAACTCTAA	CAGGAATTA	TTTGGCTCCT
224281	AACACTTAAG	ACATATCCTT	TAGTTTGTCT	CCTCACACAG	AACTGATTCT	GGTTTTGCCA
224341	CAACATGTCT	AGAGAAGAAG	TTCCCACCAT	ATTTTAAATC	CTATTAAAAA	ACTGCTTGGA
224401	CAAGAACCTT	GGGCTAATTC	AGCAGATGAA	GAGAATCTCC	TAATGCAAAT	CAATGGGTAT
224461	TTTTTGAGCAA	GTTTTTCAGA	AAAACAGAGT	GTCAGGCCCT	GAGGGTGGTA	CTAAGATGAG
224521	AACATTGATT	TTGCCTTCAT	GATATTGACA	ACACAAAGAG	GAAAGGGGGT	TTGCAGAAAA
224581	CTAAAAGAAG	AAGTAGAAGA	AAAAAGAAAG	ACATAGTATA	ATAGGTAGTC	AAATTATGTA
224641	CAGAAAAAAG	AGGAAAAAAA	ACCAAAAAAG	GGTGGGGGAC	AGACAACCCA	ACTAAAAAAT
224701	GGGCCAATGA	CTTGAACAGG	GACTTCATAA	AAGAGAAAAT	GTAAGTGGCT	CCTTAACATA
224761	TAAAAAGATG	TTCAACTTCA	TTAGTCATTA	CAGAAATGAA	AATCAAAACT	ACAATGAAAT
224821	ACCACTATAA	AATTAATAA	TGGATAAAAT	GAAAGGAGAT	GGAAAACAAA	ATGTTGCCAG
224881	ACATGTGGAG	CAACTGGAAC	TTTCATACGT	TACGAATGTG	AACCTTGGAA	AGCTGCTCGG
224941	CAATATCTCC	TAAAGCTAAA	TGTACAATTC	CAGTGACTCA	GACATTTTAC	TTAGAAATGC
225001	ACATATACAT	CCATAAAACA	TGTACAACAA	TGTTCATAGG	AGCACTATCT	GTAATAGCCT
225061	GAACAGGAAG	TTGTCTGTTA	AAAAAAGAAT	GAGTAAATAA	ACCACGGTCT	ATTTGTATAG
225121	CAATGAGAAT	TAACAGACCC	CAATATATAA	TAGATGAATG	GGTCTCATAA	GCACAATATT
225181	GATTAAAGGA	AGACAAAACG	CACATTCTTT	TAAAGGTTTA	TAAAATACTT	TTTAAAAACA
225241	GCTACAACCA	ATCCGTCTCG	TTAAAAATCA	GTGAGCGATT	TCCCTTGTGC	AGGGATGGGG
225301	GTTGTGGCTG	GATGGATGGT	ACTTAAGAAG	TGCTCCTGGG	GTACTAGAAA	TATTTTATTT
225361	CTTGACTTGG	ATGTGTGTTT	ACTTTGTGAA	TATTTGTACAT	TTATGATTGG	TGCACGTTTA
225421	TGAATGTAGA	AAATAAAACA	GAAAGCAAAT	TCAAAGTATC	ATCCTTTTGA	GAGCTTCTGC
225481	TCTGACTTCG	TTTTGACCAA	TGGAGCAGTT	GGGAAGGGGT	CTTGGTCCTT	CGGTCCTTTG
225541	CTTTTTTTTT	TTTTTTTTTT	TTTTAGACAG	AGTCTCACTC	TGTCGCCCCG	GCTGGAGTGC
225601	AGTGGCTCGA	TCCTAGCTCA	CTGAAAGCTT	TGCCTCCCGG	GTTTCATGCCA	TTCTCCTGCC
225661	TCAGCCTCCC	CAGTAGCTGG	GACTACAGGC	ACCTGCCACC	ATGCCCCGCT	AATTTTTTGT
225721	ATTTTTTAGT	AGAGACGGGG	TTTCACCATG	TTAGCCAGGA	TGGTCTCGAT	CTCCTGACCT
225781	CGTGATCCGC	CCACCTGAGC	CTCCCAAAGT	GCTGGGATTA	CAGGTGTGAG	CCACCGCGCC
225841	CGGCCCTGG	TCCTCTGCTT	TCATGTTCTT	CTTGGTCCTG	TTCTCTCTCC	TCTTTTGTGG
225901	GAACCTCCAG	TATCAGAGCA	GGAAGGAAGG	CAATGGGTCA	ATCGATGCTG	TCAGCTTTTG
225961	GATCAAACTG	CAAGTTCTCA	AACAGCAAAA	TTAATGAGCT	CAGGCTTTGA	AGAAACCATG
226021	ACCTGAAAAG	CATCAGTTGC	TTCCAATTGC	ATCAGTTGCC	ACGGGTGATA	AGAACAAATGA
226081	TGACTCAGAA	TGCCTAGGTT	TTCCCAGCAG	CTTCTCTGAG	GTTTTCCCAG	CAGCTTCTCT
226141	GATTGATTCC	TGACAGATGA	CTTCGGTGTG	TCAGACTTTC	AGGGTATCTT	TCCTTATGTG
226201	ATGGTTTGAG	GAAGAGTTAC	CATTACATT	CCTAATGGCT	TCAGAATAGA	TGCAATTGTG
226261	AACTGATAGG	AAACATTTCT	AATTCATCTC	CCCTCCCCAT	CCCTAAAGGA	TTGTTTCTAA
226321	CAATAGTCAT	GAAAATTAAT	TCACTTTTCT	CAAATAGTTT	ATTGTCATCT	ACCTAATGAT
226381	GAGATGACTT	ACTTTTCTCT	CTTGACTGTT	AAATATTATG	AATTATATTA	ATGTATTTCT
226441	TAATGTTGAG	CTTCCCTTGG	AATATTCTTT	TGATGTACGA	CAGAATTTGA	TTCACTAATA
226501	GTTTATTTAG	GACTTTGGCT	GATGTACTGA	TATATGAGAT	TGGCTCTGTA	TGCATACATG
226561	TGTTTTGTGT	ATCTTTTTTG	TGTCTGGATA	TGGAGCTTAT	GCTGATTTCA	AAAACAAGAA
226621	AGGAGAACTT	TCCTTTTTCC	CCATTACTCT	GAAAAAGATT	GACTAGAATG	GAATTTTTAT
226681	AATTGCTGTT	GTTATTTGAA	AGCTTGAAAG	CATTGGTTTG	TAAAAATCAT	GCAGGCTGAA
226741	AGCCATTTTG	AGGAGACTTT	GATAACTTTC	TCAATTTCTT	TCAGTTACTG	GTCTTTTAAG

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226801 GGGTTTTATA TTTTCTTTG ATCAATTTTG ACCATTTATG TTATCTTGGA GGATCATCTA
226861 TTTTACACAC TATTTAAAGT ATATTTGCAA AAATTCAACT GTTTTATCAG GCTATCTTTT
226921 TAATAATATA TTCAITTTAT CTATATCTGA GGTTTTAGCT TCTTTGTACT TCTGACCCAA
226981 TTGCATGTGT GCTTTCTTTC TCCTTCATTA GACTACTTAG TCATTTACTA ATTTTAAGAA
227041 TAGCTTGTCT TTTATTTATT TACTTATTTA TTTTGGAGAC GGAGTCTCAC TCTGTCACCC
227101 AGGCTGGAGT GCAGTGGCGC GATCTCGGCT CACTGCAACC TCCGCCTCCC GGGTTCAAGT
227161 GATTCCTCTG CCTCAGACTC CCGAGTAGCT GGGATTACAG TCATGCACCA CCATGTCTGG
227221 CTAATTTCTG TATTTTTAAT AGAGATGGGG TTTTGCCATG TTGGCCAAGC TGGTCTCAAA
227281 CTCCTGACCT TAGATGATCT ACCCACCTTG GCCTCCCAA GTGCTGGGAT TACAGGCATG
227341 AGCCACTGCG CCCAGCCCTG CTGTCTTTT TATTTTATAT TTGATTAGCT TATCTTTTA
227401 TCAAGCTTAT GTCCTATTTT CCTTGTCTTT ACTTCATATA AATTTTGTTT TGGATAGTTT
227461 ATTTATTTTT CATTAAATTA TGAACAGGT TAAAGCTTAG AGGAAAATTG CTCCTCTAAG
227521 TCCACTTTTG TGGGCAGATT ACATTTTGCT GTGTTGTGCT CCCAAATTCA TTGTTCTTTT
227581 AATGCTTTAT TTCTCAAGTT AATAACCTAT ATAGTAAAAA AGTGGCTGTT GACTCTCAGC
227641 TTTTTTTTTT TTTTTTTTTT TTTTTTTGTA GATACAGGGA TCTTGCTGTG TTGCTCAGGC
227701 TGGTCTGAAA CTCCTGGCTT CAAGGGATCC TCCTGCCTTG GTCTCAGAAA ATGCTGGGAT
227761 GACAGACATG AGACACCATG CCCAGCCATG TCTCTCTCCT TATATATAAT AAGAAAACAG
227821 ACACACTGAG GCATCCTATC ATCTCACTCT TGGTTTCACT ACTGTTCTCT GGAAGTTTTG
227881 CTCTGACCTT TTGCAGTTAA TGTATTAATT TTGCATTGAG TAGTTTCCAT AGAAGAATTA
227941 TAGCATTGTC ATTCTGTTGG GTATTATACT TTTCACTGTT ATTTGAACAT AATTTGAGGG
228001 CTGAAACCAA GATGAGGCAA GTGAGGTGCC CAGGAAGCAA TATTTAAGGA GGCATCCTTT
228061 CTTAGGCTCA TGCAAGAACA GAATTGSCAC ATGAGAGTGA GTGCCTCCTT AATTTTGAGT
228121 GCTGGACACT TCTTGCTCAC TTAGCATACC CCTGGACAAT GAAGTGTTTT TTGTTTTGTT
228181 TTTTCATGTC CATCCTTTAT CCTTCTTCAT CTCAAAACAT TTCAATGGAG TATTTTTTTG
228241 GAGCAGTACT TGGATGAGCC TCTGAGTCCC ACAGTAGCTG AGAATTTATT TCATAGTACT
228301 CTTTATGATC ACTGTGGAGC CTTAAAACAT TGTAATATTA ACTTAGCTGG GAACAGAAAT
228361 TTTGTTCCAC AATTTGTCTT ATTGAGAACA GTATTGACTT CTGCTAGTC TCTTCTGATG
228421 TCCAATGTA GGAAGTCTAG TTAGCCAGCT ACTTTTTGTA GGAGAGCTAT GTTTAGGCTA
228481 GGTGCTATAG GATTCTCTTT ATCCTGGAAT TCCTTCACCA AGATGTGCCA AGGTGTTAAT
228541 CATTTTCTCT TGCTTTTGG CTGGTGGTCT TAGAGTTTCC TTCGATTTTG TTTTATTTAG
228601 TGATTGTCCT CAATTTGTTT TCTTTACTAA GAATCTCTCT TCTATTTATC TGTATGTTAA
228661 AACCTTGTTG CCCATCTTTC TGGTTTCTGC TGACTTTCAT TTTTGGACCT TTTACTTTGC
228721 TTTCTCCATG GACTTTTGG TAGTGGAGGC AGGCAAACAC TTTCCAAAGT CTTTCTCAAT
228781 TTCCATCAAT TTCAACTTAT TTCCTAAAAT TGCCTCAGAA TGTGCCTATG TCCACAATAT
228841 CCCTCCTTCC ACTTTAGAAA GGAAAGGCAT CCACACTTTA TTTAGGTGCA ATGCCTGAAG
228901 TGTAACAACT TTCTGGTTGT CAACAAAGGA GTACTTCCAA ATATTGGTTT GGGGATAACC
228961 TGCTAATGAT TAACACATTC ACCTTGGCTC TTGGTTTGCC TGCTCCCTCT TCTTTTATCT
229021 GCTGTGTGTA TTTTTTTTAA TCACTGAGAA TATGCACAGT ATTGTATGTT TTATTATAAG
229081 AGAGGACTGG CCAGAGTGGG AATGTTCTGA ATTCAGAATA ACTGAAGCAG TACAGGATAG
229141 GAACTCATTC TTTCAAATGA AGCTGGCATA TTTTCCCAGA GCACCAAATT TCAATATATA
229201 TTTAAAAAAC TTGATATGAA TGATACAATA AAGTGGTTAG AACTTTTATT AAAATAAACT
229261 TATGTCATGA AATACTTATT CTAATTATAG TCACCTTTCA TCTTATTTCA TCTTATAACA
229321 TGTTTAATGT TTTCTTTTAT TTACAAAACA ATTTATTTT TTGATGAAAAG TTTTAGAAAT
229381 CAAGTTAAAA ATATTCAAAG GAATGCCTAA AGTTTTCAAA ATTCTTTTAC ATGTTGTACA
229441 ATCAAAGAG TCTGAAGACC ATTTAGCTAT CCAAATTGTT TATTTTTAAG CAGTATCCCT
229501 TCTAATATTT ACTATTTATA ATCCTTAAAA ATTTGCCTTA GCACAGGAGA ATTGCTTGAA
229561 CCCAGGAGAC GGAGGTTGCA GTGAGCCAAC ACAGTGCCAC TGCCCTCCAG CCTCGCGAC
229621 AGAGTGAGAC TCTGTCTCAA AAAAAAAAAA AAAAAAAAAA AAAAAAGGCC AAAAACAAAT
229681 AAACAAACAA AAAAATCCGC CTTAACATTA TTTGTTCAAT AAAAATTTT TTTAATACTA
229741 CTAGTTTCCC TTTCTCTCA GCCCATGTGC ATATTTTGAT TTTTATCACT TGCTTTGTAG
229801 GACATATGAG GTTTTTGTTT TTTTTTTTTT TTGGAGATGC AGTCTCCCTC TGTTGCCCCG
229861 GCTGGAGTGC AATGGCGCAA TCTTGGCTCA CTGCAACCTC TGCCTCCTGG GTTCAAGCAA
229921 TTCTCTGCC TCAGCCTTCC AAGTAGCTGG GATTACAGGC ACCCACTACC ACGCCTGGCT
229981 AATTTTTGTA TTTCTGGTAG AGACGGGGTT TCACCATGTT GGCCAGGCTG GTCTCGAACT

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230041	CCTGACCTCA	AGTGATCCAC	AATCCTTGCC	CTCCCAAAGT	GCTATGATTA	CAAGCATGAG
230101	CCACCTGCCC	AGCCAGAATA	TATGTTTATT	TTGAGTCCTT	TAACAAAGTC	ATAAGAATTT
230161	TAGGAATTC	GTTACTTTCT	TGAGAAAATC	TCTGAAAAGA	TGCCAATAAT	TTGTAGCCAA
230221	TTATATTGAT	TTCTCTTTTT	CATATTGAGA	ATTGTTTTTT	AAAAAGTTTG	TATGTGTGAA
230281	GATTTTTGCA	CTGTAGTTAA	AGAAACCACC	TGTGTGTTGG	TTAAGCCATA	AGTACATGTA
230341	TTCAAATAAA	TTGAGGTGGG	GTTACTCTGA	GAATCAAAGG	AAAACCTGAA	GAAACAGGCA
230401	GCCTCAAAAG	GTCTTAGCTG	TAGCAACTTG	CTCCATTGTT	GAAATAAATA	GGCTTGAAGT
230461	TGTATTTTCC	CTCTACTCAA	CATTAAAGGT	CTCAGAAGAT	AATATAATTG	GTGAAATTTA
230521	AGTAAAGTGC	TCACTCTTTT	GCTTTAACAA	ACCCTAGAGA	GCTGGTAGGC	AGAGCCTCAA
230581	CAGACCGTTT	TAGCTTCCAA	AGGGAGTTCA	GGACACCATG	ATTCACGACC	ACAATACATC
230641	ACACATAATT	GAGAAAAGAT	AGTTCCACCA	AATAAAGTTG	AAATGCTGAC	AAGAAGGGGT
230701	AAGAAATCTT	GGAAATAGGT	TTATATAAAA	TTTATTTTTT	CCTTTTTTAT	TGTTATGGAA
230761	TAGGACCAGT	TCTACTTAAG	CCACCCATTT	GCCAAAATAA	AGTGAGAATC	GTTTCTTTTG
230821	GGGACTCCTC	TTTGTAGCTC	CAAGTGCCAC	TAACAATTCT	TAGGACCTGA	GCTATAAGCC
230881	AGGTGATTTT	AGTTAATATG	ATCAATTATT	TCATTTAAAT	GGCTCTAATG	TGCAGAGGGA
230941	ACGGAGCCCA	TCAGCATTCC	CTGCAGGGAA	CTGCAGTGCC	TTTTATCAAC	TTGAACAGCT
231001	AGCTTTCAAC	TGTTTTGAAA	TCACTTTCAG	GGTGGTCATG	TAGTTGCTTT	TTTGAAATCA
231061	GAAGATGATT	CTGCCTCTTT	TAATATGTGA	CTCCTCAGAT	TCAGAAAGTG	CTCGCTAGTC
231121	TTAAGAGTGA	ATTACCCTCA	GTGGTCCAGC	GCTTATGAAC	CCACATCTAA	CCCTATCCCC
231181	TGGGGGAAGT	ATCAGAGAAA	TTGGTGCCAT	GGACATAAGA	GGAAGGCACA	GTGAAGCAGA
231241	GAGCCCCGCA	TGATGAAAAT	CAGTGACAG	CATCATTATT	TACAACTTTG	TAATCACCCTA
231301	GGAGCATGAA	AATCCAGGCC	AATCTGGCAC	CATGAGCTCT	AATTTTTGTT	GGAGTCTTGT
231361	GAACCGATT	TGATGAATGA	CTGTTTAGCC	ATTTTAGAGT	GTGGCATACG	TGGCTGCTGG
231421	CATACAGAGG	TTGGATGTAA	ACGGGCCTTT	GCCCTCTCTT	ATGAACATAG	ACAGGAACTA
231481	AACTGTGTCA	CATAGGTTCC	AAATGGTGCC	CTGAATACTA	TTTACAATA	AGGTACAATG
231541	AAATTGAGTA	AGTCTTTTCC	TCTTTTGAG	ATACCATCAT	TATTCATATA	TTTCTTCAAA
231601	GTTAACTATT	TGTATTTGGT	AATTTTTAAT	AGAAATGTAA	TAATTGCTTC	TCAAGTTTAG
231661	TCTTTAGTCT	TAAGGTTGAT	GCTCTCCATG	TCCTTCCAAA	AAAAGGTATG	TTGCTTTTAT
231721	TATATCCTCG	CCTTCAGATG	GGATTATTCC	ATTTTGTTCT	TTGTTAATAT	ATACTTTAGG
231781	CCACTTTTTT	TGTGGCTCTG	GGTGAGATGC	TATAGGTACA	ATGACAAGTG	ATACGTGTGT
231841	TGTCCCTGTC	ACAAAAGTGG	ATAGCCTAAG	TGGTGACTTT	TACCTCCACT	CCAAATATAT
231901	GTATCACACA	CCAGCCGTAT	GCCAGGCACC	ACTCTAGGTG	CTAGGGATAC	AGCAGTAAAC
231961	AGACAAATGC	AACCCCTGCC	CATGTGAAAG	AGAATAAGAC	AATAAATAAG	TAAAGTGCAT
232021	GTTATATGGA	GGTGGCAAAT	GCTAAAAAGA	AAAATTAAGC	AGGCAAGAGG	ACTCATTGAA
232081	AAGATGACAT	TTGGGTAAAA	GCCCATGTAT	ATATGTTCTA	TTGGTTTTAT	TTCTCTGGAG
232141	AGCCCTGACT	AATACACAAT	GACTTTGAGA	AGTTACTGGC	TTTTGATTTA	TCACACTATT
232201	CGGAGTGCTG	AGAGCCTTCT	TAGTGTGTAT	TCAGTGTTTT	AAGAGAGCTT	GTGGATGAAT
232261	AATAAATAGG	ACAAAATTTA	TCCAACTTA	AGCCTTGCTT	TAGGTAAAAG	GGCTCCTCTT
232321	ACAAGGTAGA	AGGTTATTAT	TTGACATTTA	AATCCAACCTG	AAGACTAATA	AGACTAATTA
232381	ATTAAAAGTT	TTTAAATCAC	AACTGCGTGC	AAAATAAATG	GAAGTGGCAT	GCTCGCCAAG
232441	TGTGCATGAG	TGGTGTGCAT	GGGAGACAGC	ACGAAGCTAA	TCCCACCTAT	CTTGCAGGTT
232501	GCTCCATTTT	TCTCCTAAAA	TCAGTAAGAC	AGAAGCTGGT	CAGATTATCA	AGAGCCCTAG
232561	TTAAACACAG	CAGTAGCATT	TGGAAGGGGT	TGCTCTCATT	AGGCAGTGCC	TGACCACAAC
232621	AAGAGATGAA	CAAGCCCTGT	ATCTGAAGCC	ATCATGCCTA	GTTATGGTCC	CCGACTGTTC
232681	ATGATGCCTG	GAAGGGAGGC	CCCCTGCACC	CTAGAAAAGCT	GGGTGGGTTT	TACTGTCTGC
232741	TTTACTGCTA	AAAACCCTCT	TCTTTGGATC	TGGACTTTAC	CTCTATCTGA	TTTTTTTTTC
232801	TAATATATGA	TTTGGCACTG	AGTCTGTCAC	TGCTGCTAAC	TCAGCAGTTC	TAGGGTCATT
232861	GCCCCATTGC	CTCACAGAAA	GAATTTTATA	GCTTCCAGCA	TCCTCTCTCC	TTCAATTATAC
232921	TTTGATTTC	GCATTGCTAT	TTTTTCTCTT	GGGTGTTGCA	GCTCTCTCTC	TCCTTCCCAT
232981	GTCTTGTTGG	TTTTCTGCTA	ACTCCTGCTT	TTTTTCTTTT	TTTTTTTTTG	AGACGGAGTC
233041	TCGTTCTGTC	ACCCAGGCTG	GAGTGCAGTG	GCACAATCTC	GGCTCACTGC	AACCTCCGCC
233101	TCCCGGGTTC	AAGCTATTCT	CCTGCCTCAG	CCTCCCAAGT	AGCTGGGACT	ACAGGCGCTC
233161	ACCACTATGC	CCCACTAATT	TTTGTATTTT	TAGTATTGCT	GTCATCAATC	CACATGTCCA
233221	GAAGCACCTA	GAAACTCTAA	TTCTTTGTAG	GTATCAAACC	CTAGGACTCT	TTCTCTAAT

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233281	CACAATATAT	AATCCCTGAT	TCCCAAACAC	GGTCTTTTCA	TATACATTTT	CCACTGTACA
233341	TACTTTCTGA	CCTGGAAAGC	TCTTACACAA	ACACGCCCTC	CCCTAGGAAG	CCTTTATAAA
233401	TGTTCCAGG	AAGAATCAGT	CACCCAACAG	TGTCCTTGTC	ACATCTTAGG	TTCTACACCT
233461	TTATTTGTTT	TATCTGAATG	TAATCTCCCA	GAGGGTGTTA	TCATCTTTTT	TTTTGAGATG
233521	GAGTCTTGCT	TTGCTGCCCA	GGCTGGAGTG	CAGTGGCATG	ATCTCGGCTC	ACAGCAACCT
233581	CCACCTCCTG	GGTTCAAGTG	ATTCTCCTGC	CTCAGCCTCC	TGAGTAGCTG	GGATTACAGA
233641	CGTGTTGTC	CACACCTGGC	TAATTTTTGT	ATTTTTAGTA	GAGACAGGGT	TTCAACCGTG
233701	TGGCAAGGCT	TTCTCGAAC	TCCCAAACCT	AGGTGATCCA	CCCACCTCAG	CCTCCCAAAG
233761	TGCTGGGATT	ACAGGTGTGA	GCCACCATGT	CCAGCCCCAT	CTTTTTCTTT	TAGTTTAGTT
233821	CTTAACAAAT	AGTCTGACAC	AAAGTGGATA	TAACAATATT	TTGAATTATG	AATAACTAAA
233881	TGAATATTTT	CAGATTTCC	GGTGCTCTCA	AAGTTTTATG	TTACAAAAGA	AAAACAAGTC
233941	TAAAATACCT	GCCTCAAGTT	TTATCTGTGA	CTATGATTTC	AAACCAAATA	AAAACAGGT
234001	GGGGTAAAAA	CTGAAACAGG	AAATACATAT	AACGTAAAAA	TTTTGGTATG	TTAGTATGAT
234061	AATACTAGGT	CATTTTTCC	GTTCCCCAA	CTTCATTTTC	TATAGCAATA	AAAAGAAACA
234121	AGTAAATGTA	TGTTAATTTA	ATTTAAAAGA	AGTAGTCTAC	CATCTCTTCT	GTTAAAAGA
234181	AAAAAGTATT	TTAAAAAATT	ATCTCTGGAA	GGATACACAG	GGAACATTGC	TCTGGTTTCT
234241	TCCAAGAGAG	AAATGAGGAA	CTAGAGAGCA	TGGCCAAGTG	GGGTTTTGCT	TTTGTTTTTG
234301	TTTGCTATC	TGTTAGCTTT	TTATTATTTT	CTTTTGTAGG	TTTGAATTTT	AAACCACATA
234361	AATCTGTTAC	ATGCTCATAA	TAATAAGTTT	AAAATAAAAC	TTTTGGCTGG	GTGCAATGAC
234421	TTACACCTGT	AATCCCAGCG	CTTTGGGAAG	CAGAGGTGGG	AGGATACTTG	AGGCCAGGAA
234481	TTTGAGATCA	GCCTGGGCAA	CATAGTGAGA	CCCTGCCTCT	GTAGAAATAA	ACAAAAATTA
234541	GCTGGATATG	GTGGTGATG	CTTGTAATCT	TAGCTACTTG	GGAGGTTGAG	GCAGGAGGAT
234601	CTTTTGAGTC	CAGGAGTTTG	AGGCTGCAGT	GAGCTATAAT	CACCCACTGC	ACTATAGCAT
234661	GGGCAATAAG	GTGAGAACTT	GTCTCAAAAA	AAAAAGGGGG	GGGGGAAACA	AATAAATAAA
234721	TATAAACAAA	ACTTTTGTTT	CAAAATATGT	AATATTTAGC	ACTAAAGAAT	TCTGAATTGT
234781	AGAGCTAAAA	AGTACTTAAA	AGTTAATAAC	TATTGTCTCC	TTTAAAAGAA	TTGTTATCAA
234841	AGTATAATTT	TTATCCAGAA	AATCATCCAT	ATCAGCAAGC	TAAACTTTCT	CAAAATGACA
234901	TATCCATGTA	ATTAGCTCCC	AGGTAATTAG	CAGGCAGCCT	CTACTCAGGT	TGAGTATTCC
234961	TAATCTAAAA	ATTGGAAATT	CAAAATGCTC	CAAAATCTGC	AACTTTTTGA	ATGCTAACAT
235021	GATTCTCAAA	GGAGTGCTCA	TGGAGTATTT	CAGATTTTGG	ATTTTTGGAT	TTGAGATACT
235081	CAGTATAATG	CAAAACATTCC	AAATCTGAAA	AAATCTGAAA	TACTTCTGGT	TCTAAGCATA
235141	AGGGATACTC	AACGTGTGTT	AGCTAATTAG	ACCCTTCATG	GTCTCTTCTA	GACCTCAGCT
235201	TCTTCAAGGT	AACCTCTATC	CTCACTTCTA	ATAGCATGAA	CTTTTCTGTT	TTAGAATAAT
235261	TTGGATTTTC	AGGAAAGTTG	CAAAGATAGT	ACAAAGACAG	TACAGGAGAG	TTCCCATATA
235321	TCTTTCACCT	AGCTTTCCCC	CATTGTTTAGG	ATTTTACATT	ATTATGATAC	ATTTGTCAAA
235381	TATAAGCAAC	TCACATTGAT	ACATGAAACT	CTATTAACCA	AACCCTAGAC	TTTATGTGGA
235441	TTTCACCACT	GTTTCCACTA	ATGTTTTCTT	TCTGTTCCAA	GGTCCAATCT	GGAATACCAC
235501	ACTGCATTTT	CTTGTCATAT	CTCCCTAGTC	TTTTTTTGTC	TGTGACAATG	TCTCAGTCTT
235561	TTCTTGCTTT	TCATGACCTT	AACAGTCCTG	AAGATCATTT	GCTTTTTTTT	CATAATTACA
235621	CCGGAGTTAT	AGATTTTTTG	AAATAATACC	ACAAGGGCAA	AGGGCCCTTC	TTGTACATC
235681	ATTTTAGGGA	GAACATGATA	TCCACATGAC	ATCACTGATA	TTAACCTTCA	TCATGTGGTT
235741	TAGGTAATGT	TTCAAGTTTC	TCTACTGCAA	AGTGATTTTT	TTCCCTTAAT	TTAGCCACC
235801	TGAACCTATC	AATTTTGTTT	TCTTCCATGA	CTAATACTTT	TGTTATTATA	GCTAAAACCT
235861	CATTGGGGCC	AAATCTTAGA	TCATGTAAAT	TTCTTCTAT	ATTTTATTCT	AAAAGCTTGT
235921	AATGTTTGAT	ACATTCTAAA	AGATGTAATG	TTTGATACAT	TACATCTAGT	CCTTTGATTT
235981	ATTTTGTAGT	ACTTTTGTTT	AAGGTGTGAG	AGATGTCTCC	AGTTTCACTT	TATTAACACA
236041	TTGTGGTGTT	CCAGTACTAT	TTGTTGCTAA	GACTATCTTT	TTTCCATTGA	TTACCTTTGC
236101	CTTAGTTGGC	AATATTTTTG	TTGGTTTATT	TCTAGACTGT	TTATCTCATT	CCACTGATTT
236161	GTGTCTATCT	TTTTGACAAA	ACTGTTGATT	ACAGTAAGCT	TTGAAATAGT	TCATTTTTTG
236221	TGTCAACTTG	ACTGAGTCAG	GGGATAACCA	GCTATCTGGT	TAAACATTAT	TTCTGGCTGT
236281	GTTTGTGAGC	GTGTTTCTGG	ATGAGATTAG	CCTTTGAATA	GGTGATCCTA	GTAAGTAAAA
236341	CTGTCTTTCC	CAGTGTGGAT	GGCATTATGC	CACCTGATAT	TCAGGGTCTG	AATAGAAGAA
236401	AAGGCAGAGG	AAGGGGGAAT	TTGGGCCTTT	TTTTCTGCCT	CACTGCTTGA	GCTGGGACAT
236461	CTCATCTGGT	CTCCTGCTCT	TGAAGTGGGA	TTTACATCAT	CAGTTCCTCT	GGTTCCTCAGG

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236521	CCTTCAGATT	CAGACTGAAT	CATACCACCA	GCTTTCCTGG	GTCTCCAGCT	TGCAGATTAC
236581	AGATCATGGG	ACTCCTCATC	TTCCATAAAT	GCATGAGCCA	ATTCAGTCTA	TGTCCTTGAA
236641	AACTGCCCCA	CTGCAGATTA	AGGCTTTTTT	CCACTAGGTG	AAATAAAGAA	GCTTGTTAGA
236701	CAGATTTCCC	TTCATCCAGT	GCCCTCTCCT	CTTTAAGTTA	CAACACATTG	GCTACACCTA
236761	AGTGCAGGGG	TGGGGATGAG	GGTATAGTCC	TCTTGTTTGC	TGAGAAGAGA	ACTGTATTGG
236821	GAAAGCTCTA	GAAGTGTTTG	ATACATACAT	AAACAAGGCA	TGGTTTTTGC	ACTTAATTTT
236881	ACATTACATT	TTTCCCAGAA	AAAAAGGAAT	GTATAGGCAT	CACGTAAGTG	TACTAGCTGG
236941	AGTCATTCTT	CCTGATTATC	AAAGGTAAAC	AGTTATTAAT	CCTATACCAA	GATGTCAAGG
237001	AGAAGTACTT	TTGGAACACA	AGGAATTCTC	TGGGAGTCCT	TACTACTCTC	AAGCCCAGTG
237061	AAAAAGTTAA	TGAAAAACTA	TAGTACCTTC	CTATAAGCTG	GATGACTAAT	TACCAGGCTC
237121	ATTTAGGAAT	TTGCCTTACC	AAGTAAACA	TAAGGGCAGC	TGAGGTGCTG	ACTGAAGACA
237181	AATGGAGCAT	AGAATAAGAG	TAGTAAAGAA	TGCCAAAAAT	GCTGTCATGT	ATCCATTGAC
237241	AAAAGGAGCT	ATAAAGCCTT	TAGGTATTTT	CACACTTGCT	CTGTTACGTA	AATGTATGTG
237301	TGTGTGTGTG	TGTGTGTGTG	TGTGTG			

Figure 9 (Pag 74 f 74)

SUBSTITUTE SHEET (RULE 26)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C07H 21/04; C12Q 1/68; C12N 15/63, 15/85; C12P 21/02

US CL : 536/23.5; 435/6, 70.1, 325, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/6, 70.1, 325, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG'S BIOTECH cluster.

hemochromatosis, BTF1, BTF2, BTF3, BTF4, NTP-3, NTP-4, RoRet, butyrophilin, type 1 sodium transport

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	RUDDY, D.A. et al. A 1.1-Mb transcript map of the hereditary hemochromatosis locus. Genome Research. May 1997, Vol. 7, No. 5, pages 441-456, see entire document.	1-20, 22-77
X	FISCHER, L. et al. Cloning of the 62-kilodalton component of basic transcription factor BTF2. Science. 04 September 1992, Vol. 257, pages 1392-1395, see entire document.	28-33, 71
X	MARGOTTIN, F. et al. Participation of the TATA factor in transcription of the yeast U6 gene by RNA polymerase C. Science. 25 January 1991, Vol. 251, pages 424-426, see entire document.	22-27, 70

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

20 JANUARY 1998

Date of mailing of the international search report

12 FEB 1998

Name and mailing address of the ISA/US
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHENG, X.M. et al. Sequencing and expression of complementary DNA for the general transcription factor BTF3. Nature. 05 April 1990, Vol. 344, pages 556-559, see entire document.	34-39, 72
X	PANTEGHINI, M. Electrophoretic fractionation of 5'-nucleotidase. Clinical Chemistry. February 1994, Vol. 40, No. 2, pages 190-196, see entire document.	52-57, 75
X ---- A	BURT, M. J. et al. A 4.5-megabase YAC Contig and physical map over the hemochromatosis gene region. Genomics. 15 April 1996, Vol. 33, No. 2, pages 153-158, see entire document.	1-6 ---- 7-20, 22-77
A	VERNET, C. et al. Evolutionary study of multigenic families mapping close to the human MHC Class I region. J. Mol. Evol. November 1993, Vol. 37, No. 6, pages 600-612, see abstract in particular.	1-20, 22-77

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US97/17658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☒

No protest accompanied the payment of additional search fees.

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-20, drawn to polynucleotide sequences containing at least one polymorphic site, polypeptides encoded thereby, antibodies to said polypeptides and a method to determine the presence of the HFE gene mutation.

Group II, claim 21, drawn to the lymphoblastoid line atcc cri-12371.

Group III, claim(s) 22-27 and 70, drawn to BTF1 nucleic acids, gene products, vectors and antibodies.

Group IV, claim(s) 28-33 and 71, drawn to BTF2 nucleic acids, gene products, vectors and antibodies.

Group V, claim(s) 34-39 and 72, drawn to BTF3 nucleic acids, gene products, vectors and antibodies.

Group VI, claim(s) 40-45 and 73, drawn to BTF4 nucleic acids, gene products, vectors and antibodies.

Group VII, claim(s) 46-51 and 74, drawn to BTF5 nucleic acids, gene products, vectors and antibodies.

Group VIII, claim(s) 52-57 and 75, drawn to NPT3 nucleic acids, gene products, vectors and antibodies.

Group IX, claim(s) 58-63 and 76, drawn to NPT4 nucleic acids, gene products, vectors and antibodies.

Group X, claim(s) 64-69 and 77, drawn to RoRet nucleic acids, gene products, vectors and antibodies.

The inventions listed as Groups I-X do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I and III-X are drawn to physically different genes and their gene products and each therefore constitutes a separate invention. The lymphoblastoid cell line of Group II is not dependent upon the vectors of any of the Groups I and III-X and therefore constitutes a separate invention. Accordingly, the claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form a single inventive concept.

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